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L. P. Schultz

e United States National Museum

1962 ANNUAL REPORT

FOR·THE·INCREASE·AND·DIFFVSION·OF·KNOWLEDGE·AMONG·MEN·
PER ORBEM
·SMITHSONIAN·INSTITVTION·WASHINGTON·1846·

The United States National Museum

Annual Report for the Year Ended
June 30, 1962

SMITHSONIAN INSTITUTION

UNITED STATES NATIONAL MUSEUM,
UNDER DIRECTION OF THE SMITHSONIAN INSTITUTION,
Washington, D.C., August 15, 1962.

SIR: I have the honor to submit herewith a report upon the present condition of the United States National Museum and upon the work accomplished in its various departments during the fiscal year ended June 30, 1962.

Very respectfully,

REMINGTON KELLOGG,
Director, U.S. National Museum.

DR. LEONARD CARMICHAEL,
Secretary, Smithsonian Institution.

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June 30, 1962

United States National Museum

Director: Remington Kellogg

Registrar: Helena M. Weiss

MUSEUM OF NATURAL HISTORY

Director: Albert C. Smith

Mabel A. Byrd, Administrative Officer

Department of Anthropology: T. Dale Stewart, head curator

ARCHEOLOGY: Waldo R. Wedel, curator
  Clifford Evans, Jr., associate curator
  Gus W. Van Beek, associate curator
ETHNOLOGY: Saul H. Riesenberg, curator
  Gordon D. Gibson, associate curator
  Eugene I. Knez, associate curator
  William H. Crocker, associate curator
  Robert A. Elder, Jr., assistant curator
PHYSICAL ANTHROPOLOGY: T. Dale Stewart, acting curator
  Marshall T. Newman, associate curator

A. Joseph Andrews, exhibits specialist

Department of Zoology: Horton H. Hobbs, Jr., head curator

MAMMALS: David H. Johnson, curator
  Henry W. Setzer, associate curator
  Charles O. Handley, Jr., associate curator
BIRDS: Philip S. Humphrey, curator
REPTILES AND AMPHIBIANS: Doris M. Cochran, curator
FISHES: Leonard P. Schultz, curator
  Ernest A. Lachner, associate curator
  William R. Taylor, associate curator
INSECTS: J. F. Gates Clarke, curator
  Oscar L. Cartwright, associate curator
  Ralph E. Crabill, Jr., associate curator
  William D. Field, associate curator
  Oliver S. Flint, Jr., associate curator
  Donald R. Davis, associate curator
MARINE INVERTEBRATES: Fenner A. Chace, Jr., curator
  Thomas E. Bowman, associate curator
  Charles E. Cutress, Jr., associate curator
  Donald F. Squires, associate curator
MOLLUSKS: Harald A. Rehder, curator
  Joseph P. E. Morrison, associate curator
  Joseph Rosewater, associate curator

Department of Botany: Jason R. Swallen, head curator

PHANEROGAMS: Lyman B. Smith, curator
- Richard S. Cowan, associate curator
- Velva E. Rudd, associate curator
- John J. Wurdack, associate curator

FERNS: Conrad V. Morton, curator

WOODS: William L. Stern, curator

GRASSES: Jason R. Swallen, acting curator
- Thomas R. Soderstrom, associate curator

CRYPTOGAMS: Mason E. Hale, curator
- Paul S. Conger, associate curator

Department of Geology: G. Arthur Cooper, head curator

MINERALOGY AND PETROLOGY: George S. Switzer, curator
- Edward P. Henderson, associate curator
- Paul E. Desautels, associate curator
- Roy S. Clarke, Jr., chemist

INVERTEBRATE PALEONTOLOGY AND PALEOBOTANY: Richard S. Boardman, curator
- Porter M. Kier, associate curator
- Richard Cifelli, associate curator
- Erle G. Kauffman, associate curator

VERTEBRATE PALEONTOLOGY: C. Lewis Gazin, curator
- Nicholas Hotton III, associate curator
- Franklin L. Pearce, exhibits specialist

MUSEUM OF HISTORY AND TECHNOLOGY

Director: Frank A. Taylor

Assistant Director: John C. Ewers

William E. Boyle, administrative officer

Department of Science and Technology: Robert P. Multhauf, head curator

Joseph E. Rudman, assistant curator

PHYSICAL SCIENCES: Lester C. Lewis, acting curator
- Walter F. Cannon, associate curator

MECHANICAL AND CIVIL ENGINEERING:
- Silvio A. Bedini, curator; in charge of Section of Tools
- Edwin A. Battison, associate curator, Sections of Light Machinery and Horology
- Robert M. Vogel, associate curator, Sections of Heavy Machinery and Civil Engineering

ELECTRICITY: Robert P. Multhauf, acting curator

TRANSPORTATION: Howard I. Chapelle, curator; in charge of Section of Marine Transportation
- Kenneth M. Perry, associate curator
- John H. White, Jr., associate curator, Section of Land Transportation

MEDICAL SCIENCES: Sami K. Hamarneh, associate curator, in charge; in charge of Section of Medical and Dental History, and Pharmaceutical History and Health

Department of Arts and Manufactures: Philip W. Bishop, head curator

MANUFACTURES AND HEAVY INDUSTRIES: Philip W. Bishop, acting curator
Charles O. Houston, Jr., associate curator
AGRICULTURE AND FOREST PRODUCTS: Edward C. Kendall, associate curator in charge
TEXTILES: Mrs. Grace Rogers Cooper, curator
CERAMICS AND GLASS: Paul V. Gardner, curator
GRAPHIC ARTS: Jacob Kainen, curator
Fuller O. Griffith, associate curator
Eugene Ostroff, associate curator, Section of Photography

Department of Civil History: Richard H. Howland, head curator

Peter C. Welsh, associate curator; Doris A. Esch, assistant curator
Ellen J. Finnegan, junior curator

POLITICAL HISTORY: Wilcomb E. Washburn, curator
Mrs. Margaret Brown Klapthor, associate curator
Mrs. Anne W. Murray, assistant curator
Herbert R. Collins, assistant curator
Keith E. Melder, assistant curator
CULTURAL HISTORY: C. Malcolm Watkins, curator
Rodris C. Roth, associate curator
Mrs. Cynthia Adams Hoover, assistant curator
John N. Pearce, assistant curator
Anthony W. Hathaway, assistant curator
PHILATELY AND POSTAL HISTORY: Richard H. Howland, acting curator
George T. Turner, associate curator
Francis J. McCall, associate curator
Carl H. Scheele, assistant curator
NUMISMATICS: Vladimir Clain-Stefanelli, curator
Mrs. Elvira Clain-Stefanelli, associate curator

Department of Armed Forces History: Mendel L. Peterson, head curator

MILITARY HISTORY: Edgar M. Howell, curator
Craddock R. Goins, Jr., associate curator
NAVAL HISTORY: Philip K. Lundeberg, curator

Office of Exhibits: John E. Anglim, Chief

Benjamin W. Lawless, assistant chief

Bela S. Bory, production supervisor
Julius Tretick, production supervisor
Watson M. Perrygo, in charge of taxidermy

Honorary Smithsonian Fellows, Collaborators, Associates, Custodians of Collections, and Honorary Curators

Anthropology

John M. Campbell, Archeology
Glenn H. Cole, Archeology
Albert Jamme, Archeology
Neil M. Judd, Anthropology
Herbert W. Krieger, Anthropology
Betty J. Meggers, Archeology
Frank M. Setzler, Anthropology
H. Morgan Smith, Archeology
Walter W. Taylor, Jr., Anthropology
William J. Tobin, Physical Anthropology

Zoology

Oliver L. Austin, Birds
Doris H. Blake, Insects
J. Bruce Bredin, Biology
Melbourne A. Carriker, Jr., Insects
Ailsa M. Clark, Marine Invertebrates
Herbert G. Deignan, Birds
Carl J. Drake, Insects
Herbert Friedmann, Birds
Frank M. Hull, Insects
Laurence Irving, Birds
William L. Jellison, Insects
Allen McIntosh, Mollusks
J. Percy Moore, Marine Invertebrates
Carl F. W. Muesebeck, Insects
Waldo L. Schmitt, Marine Invertebrates
Benjamin Schwartz, Helminthology
Robert E. Snodgrass, Insects
Thomas E. Snyder, Isoptera
Alexander Wetmore, Birds
Mrs. Mildred Stratton Wilson, Copepod Crustacea

Botany

Chester R. Benjamin, Fungi
Agnes Chase, Grasses
Ellsworth P. Killip, Phanerogams
Emory C. Leonard, Phanerogams
Floyd A. McClure, Grasses
Kittie F. Parker, Phanerogams
John A. Stevenson, Fungi
William N. Watkins, Woods

Geology

C. Wythe Cooke, Invertebrate Paleontology
Waldemar T. Schaller, Mineralogy
Wendell P. Woodring, Invertebrate Paleontology

Science and Technology

Derek J. Price

History

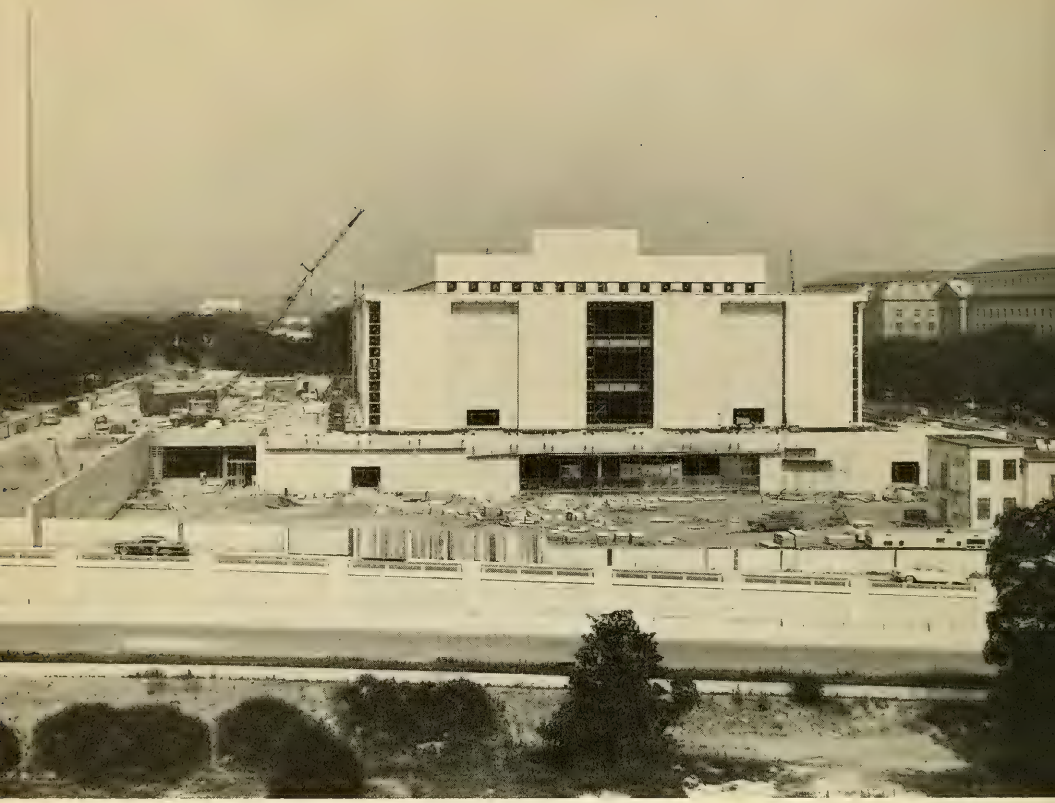
Mrs. Arthur M. Greenwood, Cultural History
Elmer C. Herber, History
Ivor Noël Hume, Cultural History
Fred W. McKay, Numismatics

Exhibits

William L. Brown, Taxidermy

Annual Report of the Director

United States National Museum



Installation of the facing on the Museum of History and Technology was nearing completion in June 1962

Buildings

Additions to the Museum of Natural History

Construction of the east wing and the air conditioning of the existing Natural History building was authorized by the Congress in the act (Public Law 86–455) approved May 13, 1960, which appropriated $13,500,000. The east wing addition was in an advanced stage of construction at the end of the fiscal year. Plastering of the interior had been completed. Except for miscellaneous cleaning and calking, work on the exterior is finished.

An appropriation (Public Law 87–122) for the construction of the west wing and completion of renovation of the Natural History building was approved by Congress on August 3, 1961. At the end of the fiscal year, however, the contract for this construction and renovation had not been awarded. The west wing when completed will provide laboratories and workrooms as well as adequate storage space for the collections of the department of botany, and the divisions of fishes, reptiles and amphibians, marine invertebrates, and insects. Mills, Petticord & Mills, of Washington, D.C., are the architects, and the contract for construction when awarded will be supervised by the General Services Administration.

Museum of History and Technology

During the year, construction of the building for the Museum of History and Technology reached the stage where it was desirable to place two of the largest museum objects in the exhibition galleries. The large steam locomotive and tender presented by the Southern Railway System was placed on the rails in the transportation hall and the original Revolutionary War gundelo *Philadelphia* was hoisted through a window to its place in a third-floor military history hall.

Details of the progress of construction are contained in the report of the Joint Congressional Committee on Construction of a Building for a Museum of History and Technology (Senate Report No. 1702, 87th Cong., 2d sess., July 10, 1962), as follows:

> The Joint Congressional Committee on Construction of a Building for a Museum of History and Technology for the Smithsonian Institution submits this report on the progress of the planning and construction of the building.

The provisions of the act of June 28, 1955, authorized the construction of a building for a Museum of History and Technology, established the Joint Congressional Committee to advise the Board of Regents of the Smithsonian Institution during the planning and construction of the building, and required that the Joint Congressional Committee submit a report annually on the progress of construction.

On May 19, 1961, the cornerstone of the building was laid with ceremonies at which the Chief Justice, in his capacity as Chancellor of the Smithsonian Institution, reviewed the history of the development of the Smithsonian Institution as shown in its older buildings; and Senator Anderson, chairman of the Joint Committee and Regent of the Smithsonian Institution, spoke of the purpose of the new Museum of History and Technology and of the close relationship which exists between the Smithsonian Institution and the Congress of the United States. The addresses follow:

THE MAJOR BUILDINGS OF THE SMITHSONIAN INSTITUTION

Address by the Chief Justice of the United States, the Honorable Earl Warren, in his Capacity as Chancellor of the Smithsonian Institution

As the cornerstone of this great new Smithsonian building is laid, it is appropriate to review the history of the development of the Smithsonian Institution as shown in its older buildings.

It was almost exactly 114 years ago—on May 1, 1847—that the cornerstone of the first Smithsonian building was laid. Impressive ceremonies marked the event. It was the occasion of a public holiday, and it is recorded that six or seven thousand people watched the mile-long procession as it marched along F Street to the White House and then down Pennsylvania Avenue and 12th Street to the site. There [pointing in the direction of the old Smithsonian Institution Building] it still stands, ivy-covered, and peaceful, still the headquarters and the center of Smithsonian activity, still an impressive architectural landmark that many of us who see it every day have grown to admire as a structure that lends graciousness and a mellow antiquity to fast-changing Washington. It has long been, also, a national symbol of science and learning. Work done in that building played a not unimportant role in launching our present Age of Science, and significant research is still conducted within its walls.

The founder of the Institution, James Smithson, himself, was a distinguished investigator in chemistry and metallurgy, and he planned that his institution should broadly foster science and research. He stated his aims in 1826 when he drew his famous will bequeathing his fortune to the United States of America, "to found at Washington an establishment for the increase and diffusion of knowledge among men."

The original Smithsonian building was designed by the distinguished American architect, James Renwick, Jr., and erected under the watchful eye of the Institution's first Secretary, the world-famous physicist, Dr. Joseph Henry. The erection of the structure, begun, as I have said, in 1847, was completed in 1855 although portions of it were occupied earlier. The mellow brown stone was quarried nearby from the banks of the Chesapeake & Ohio Canal near Seneca Creek, Md. The building was the first Romanesque, sometimes called Norman, building to be erected in this country for nonecclesiastical uses. An interesting book was written about it as exemplifying the daring modern architecture of the day.

From the first partial opening of this first building, the Smithsonian has been a great museum center. Through the efforts of Dr. Henry, and Dr. Spencer Fullerton Baird, the second Secretary of the Institution, and their successors, the

Smithsonian's museum activitives and collections have become in some ways the greatest in the world. The demand for exhibition and storage space increased even in the early years as important material was presented to the Institution, particularly as a result of the surveys and explorations of our western territories. It is interesting to remember that Smithsonian scientists went with the survey parties of the great transcontinental railroads and sent back streams of important specimens to the Institution.

When, in November 1876, the Centennial Exposition at Philadelphia closed, 66 freight cars brought choice and valuable exhibits to the Smithsonian. But there was no place to exhibit them. Quick action was necessary, and Congress appropriated funds to erect the second Smithsonian building. This structure, now called the Arts and Industries Building, is the capacious red brick structure just east of the original Smithsonian Building. It was begun in 1879, and completed in 1881, just in time to accommodate the inaugural reception and ball for President Garfield on March 4. This building marked another milestone in the development of the Smithsonian for it provided a place for all aspects of exhibits, but especially those in engineering, crafts, industries, medicine, and American history. There is reason to believe that more visitors have come to this building in its 80 years of existence than to any other museum structure in the world.

Another quarter of a century passed and a third building for the Smithsonian came into being. On March 3, 1903, Congress provided funds for the erection of the Natural History Building at a cost of $3,500,000. It may be noted that this sum was a not inconsiderable percentage of the total national budget of that year. The distinguished Samuel Pierpoint Langley was then Secretary of the Institution but he did not live to see the building completed. Although begun in 1903, the first portion of the building was not opened to the public until March 17, 1910, and all structural work was not completed until June 1911. This monumental building is classical in design. Its architects were Hornblower and Marshall of Washington. Its 10 acres of floor space have served the Nation well for half a century, but its walls have long been bulging with exhibits, and the storage of collections for which no display space can be found.

The next Smithsonian building was the beautiful Freer Gallery of Art which was given to the Nation in 1906 by the Detroit industrialist, Charles Lang Freer. Ground was broken on September 23, 1916, and the building was completed in the spring of 1921, about 18 months after the death of Mr. Freer. It is in the style of Florentine Renaissance palace architecture. The architect was Charles A. Platt of New York. Few museums in the world are as rich in the art treasures of both the Far East and the Near East as the Freer Gallery. For 40 years now the building has proved to be a fitting repository for its priceless collections and an appropriate place for the research of scholars in the field of Oriental and Middle Eastern art.

The temporary steel hangar-like building on Independence Avenue south of the Smithsonian Building, the Air and Space Building, was erected in 1917 during World War I as a testing laboratory for Liberty engines. After the war it was opened to the public to display a small portion of the aeronautical collections in the custody of the National Air Museum of the Smithsonian.

Finally, in this chronology, comes the National Gallery of Art, a most notable addition to the Smithsonian "campus." It was opened just 20 years ago. The building, designed by the architect, John Russell Pope, and erected at a cost of over $15 million, was a gift to the Nation of the late Andrew W. Mellon. It is one of the largest marble structures in the world and has more than half a million square feet of floor space. It is a monumental, permanent adornment to our Nation's Capital, and is a mecca for art lovers from all over America and the world.

As a background for today's ceremony, we can see how, through the years, Smithsonian buildings have grown to keep pace with the development of the Nation. It is indeed a cause for rejoicing that these older buildings are now to be supplemented by, but not replaced by, a new and most urgently needed building, the cornerstone of which we are laying today. This new building will make possible the proper preservation and display of great collections of the treasures of the American people for the benefit of the countless millions of visitors who will come here in the years ahead.

THE NEW MUSEUM OF HISTORY AND TECHNOLOGY

Address by Senator Clinton P. Anderson, Member of the Board of Regents of the Smithsonian Institution and Chairman of the Joint Congressional Committee on Construction of a Building for a Museum of History and Technology for the Smithsonian Institution

The Chief Justice has given you a history of the Smithsonian buildings that are antecedent to the one whose cornerstone we are laying today. I would like to speak of the purpose that this new Museum of History and Technology is destined to serve in the life of our Nation. And then I shall refer to the close relationship that exists between the Smithsonian Institution and the Congress of the United States.

The purpose of this magnificent Museum Building is to illustrate the culture and technological development of our Nation from colonial times. It will place before the millions who visit the Nation's Capital each year a stimulating exposition that commemorates our heritage of freedom and the technology of our way of life.

In the cornerstone we place the official documents that provide the legislative, historical, and patriotic foundation upon which this museum shall stand. The structure will enclose over 50 museum halls to be filled with treasures long in the possession of the Smithsonian, illustrating our cultural, civil and political history, the history of our armed forces, and the development of science, technology, engineering, and manufacture.

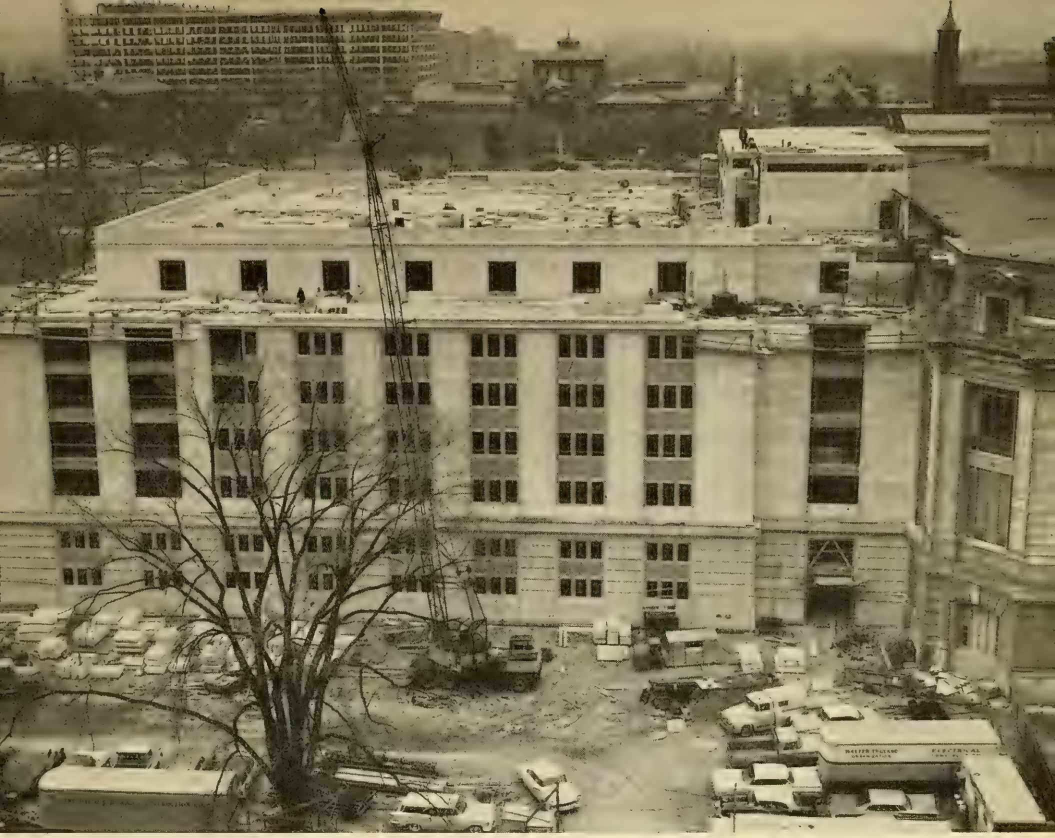
In the central hall will be displayed the original Star-Spangled Banner—the very flag seen in the "rockets red glare" while flying over Fort McHenry when Francis Scott Key wrote the words of our national anthem. This shell-torn flag is properly considered by many as the greatest single historical museum exhibit in America.

Famous inventions and models from practically every field of our technology will be shown—Whitney's model of his cotton gin, Morse's telegraph, Henry's electromagnet, Howe's sewing machine, Edison's electric lamp, Duryea's automobile, Bell's telephone, Thompson's electric welder, Borden's evaporator, Corliss' steam engine, Sholes' typewriter.

Historical treasures such as George Washington's sword, uniform, and field kit, Thomas Jefferson's desk at which he drafted the Declaration of Independence, the wheel of the battleship *Maine*, the printing press at which Franklin worked, the coat worn by Jackson at the Battle of New Orleans—these are representative of the objects to be exhibited.

On the first floor, entered directly from Constitution Avenue, over 5 million visitors each year will find exhibits showing advances in pure science and their application to engineering and industry.

On the second floor, entered directly from the Mall, visitors will see in a chronological series of halls the tools, weapons, and clothing of our ancestors. Complete rooms will show home interiors, furnishings, and objects of the decorative arts of many periods. The original gowns of the First Ladies will be



East wing of Natural History building in February 1962. Work of finishing the interior was well underway by June.

displayed in rooms reconstructed of original woodwork and furnishings obtained from White House renovations.

On the floor above will be the Armed Forces collection—weapons, flags, uniforms, warship models, prints, maps—all presented in the perspective of history. Also on this floor will be exhibits related to the arts, including musical instruments, printing presses, photographic equipment, ceramics, and glass. The Smithsonian's notable collections of coins and stamps, its history of the mails with original early letters and models of mail coaches, and its comprehensive history of money and illustrations of the significance of medallic art will be of great interest.

The upper floors will be dedicated to the extensive reference collections numbering over 800,000 historical and technological objects. Here also will be the workrooms for the expert staff engaged in the examination and documentation of the collections.

Six or more generations of Americans have come to study and be inspired in the older Smithsonian buildings which the Chief Justice has described. But for the first time in this new structure it will be possible to present tens of thousands of objects in a graphic and vivid way to tell the story of the growth of our country.

This great new building we are dedicating today promises to be a worthy home for the national treasures I have mentioned, and a worthy monument to the people who are cooperating to make it a meaningful and useful museum. Perhaps there should be a word about the very special relationship that, from the beginning, has existed between the Congress and the Institution.

In 1835, President Jackson told Congress of James Smithson's gift, and asked Congress to take the legislative action needed to accept it. From that moment, Smithson's bequest engaged the attention of and inspired a sense of responsibility in the country's leading men, whether in public or private life. John Quincy Adams, then in the House of Representatives, and Jefferson Davis, then in the Senate, appreciated the importance of the gift. They overcame the objections of others and induced Congress to accept the bequest of $500,000—about 2 percent of the entire national budget for the year 1835. Starting in that year—at a time when the young country was opening up the West, and was flexing its economic muscles—five successive Congresses debated how this sum should be used to "increase and diffuse knowledge." A university, a great astronomical observatory, a national agricultural school, an institution "to promote science and the useful arts, and to establish a national museum" were suggested.

Finally, in 1846, the 29th Congress hammered out the broad mission of the Smithsonian and framed its basic organizational structure. The act which it passed on August 10, 1846, became the charter of the Institution. It vested the Smithsonian with the prestige and dignity of the United States Government by making the President, Vice President, Chief Justice, and members of the Cabinet the Smithsonian establishment. It gave the Institution a Board of Regents which, like a college board of trustees, is the continuing body that guides its policies.

The present Chancellor of this Board is the Chief Justice of the United States. On the Board sit the Vice President of the United States, six Members of Congress, and six distinguished citizens of the United States. Together they serve as custodians of the establishment.

The first Board of Regents in 1846 chose as the first Secretary America's great scientist—Joseph Henry. A distinguished line of public servants has followed him.

The very special relationship of the Smithsonian to the Government was spelled out many years ago by a former Chancellor of the Smithsonian, Chief Justice Taft. It is not, he said, "and has never been considered a government bureau. It is a private Institution under the guardianship of the Government."

"James Smithson," said Joseph Henry, "was well aware that knowledge should not be viewed as existing in isolated parts, but as a whole, each portion of which throws light on all the other, and that the tendency of all is to improve the human mind and give it new sources of power and enjoyment."

James Smithson, distinguished scientist and benefactor of the people of the United States, would surely look with pride upon this newest addition to the museums of the Smithsonian Institution.

These years, as were those in which the Smithsonian was created, are times of difficulty made more troublesome by the problems of expansion. No longer does research center only on minerals, animals, and plants. Travel through space is almost at hand ; Mars and Venus will soon be on our visiting list. The split atom and the rays of the sun may propel our vehicles through the constellations of stars. We will need this museum.

In a superlative way, this new structure will further the exalted objective of its founder that this Institution should serve America and the world through "the increase and diffusion of knowledge among men."

DOCUMENTS PLACED IN CORNERSTONE

The contents of the document box in the cornerstone of the Museum of History and Technology Building are as follows:

1. The act of Congress, approved August 10, 1846, establishing the Smithsonian Institution.
2. *The Smithsonian Institution*, Smithsonian Publication 4145, 1959 edition.
3. The Annual Report of the Secretary and Financial Report of the Executive Committee of the Board of Regents for 1960.
4. The Annual Report of the United States National Museum for 1960.
5. The act of Congress authorizing the construction of the Museum of History and Technology (Public Law 106, 84th Cong.).
6. The acts of Congress appropriating funds for construction of the building (Public Laws 219 and 573, 84th Cong.).
7. Names of the members of the Board of Regents of the Smithsonian Institution and of the Joint Congressional Committee on the Construction of the Building.
8. Reports of the Joint Congressional Committee, April 16, 1958, and May 20, 1959.
9. Photographs of renderings of the building.
10. Photograph of construction operations, May 1, 1961.
11. Roster of the staff, Museum of History and Technology, including Office of Exhibits, April 17, 1961.
12. Smithsonian Institution directory, August 1960.

* * * *

PROGRESS ON CONSTRUCTION SINCE JUNE 1961

During the past year the structural concrete work has been completed; all precast concrete panels were erected for the exterior walls; the roof has been made sufficiently weathertight to permit work to continue through the winter; metallic waterproofing was completed in the basement; and the pumping of ground water was terminated. The marble facing has been substantially completed on all walls from the second floor terrace to the top of the building and marble facing on the first floor walls is continuing. Window frames were installed in most openings and a number of windows have been glazed. Granite paving of the second floor terrace has begun.

Most masonry interior partitions have been erected and stud partitions have been framed throughout the exhibition floors. Terrazzo floors in the first and second floor exhibition areas are substantially complete and terrazzo work progresses on the third and fifth floors.

Permanent electrical connections have been made to tranformers and electrical gear rooms and wiring is being installed in many parts of the building. The cooling tower has been erected and work on the cooling tower machinery room is well advanced. Installation of ducts, piping, and other mechanical work including elevators and escalators has progressed concurrently with structural and architectural work. A large freight elevator is expected to be in operation in May 1962.

The building was reported to be 72 percent complete on April 24, 1962. With the inclusion of materials on the site the percentage of completion of the contract was estimated to be 75 percent.

* * * *

The General Services Administration is charged by law with the responsibility for the construction of the building. Officials of the

General Services Administration who have been very helpful in furthering the work of construction include, among others, L. L. Hunter, E. T. Van Vranken, Otis A. Waldrop, Clyde C. Key, Thomas A. Reneau, and Raymond Eichorn. John E. Cudd, liaison architect, has devoted increased attention to the Museum of History and Technology during the year and continues to provide sound architectural judgment and advice.

Roy W. Johnson was named resident engineer in charge of supervision of construction. Arthur R. Eno, supervisory engineer, continued to observe the progress of construction for the Smithsonian Institution and solved many problems resulting from job conditions.

On June 23, 1962, C. J. White, partner of the firm of Steinmann, Cain & White, died after a brief illness. Mr. White was associated with the design and construction of the Museum of History and Technology from about June 15, 1957, to his death. He will be greatly missed by his associates, as will his energy and intimate knowledge of the work.

Funds Allotted

From the funds appropriated by the Congress to carry on the operations of the Smithsonian Institution and its bureaus during the fiscal year 1962, the sum of $4,176,000 was obligated by the United States National Museum for the preservation, increase, and study of the national collections of anthropological, zoological, botanical, and geological materials, as well as materials illustrative of engineering, technology, industry, graphic arts, and history (this amount includes sums expended for the program of exhibits modernization).

Exhibits

During the year the opening of the hall of the cultures of the Pacific and Asia marked the complete modernization of the 10th of the 15 large galleries on the first floor of the Museum of Natural History. Preparation of exhibits for two other halls in this museum progressed in anticipation of their reopening before the end of the calendar year 1962. Under the chairmanship of Museum Director Albert C. Smith, the committee coordinating and supervising the modernization of natural history exhibits reviewed the planning of six additional halls in earlier stages of development and recommended space assignments for the other fields of natural history included in the modernization program. The design of the renovated halls in this building was greatly aided by Richard S. Johnson, design branch chief, and John H. Morrissey, Architectural Branch Chief of the Architectural and Structural Division of the Public Buildings Service, General Services Administration, and by Luther H. Flouton and Pasquale Battestelli, design architects of that agency.

Exhibits chief John E. Anglim provided overall supervision to the exhibits staff engaged in the design, production, and installation of permanent exhibits in the entire museum, and directly supervised the operation of the exhibits laboratory in the Natural History building. Julius Tretick assisted in supervising the production and installation of exhibits in the Natural History building.

Assistant Director John C. Ewers continued to coordinate the activities of the curators and the exhibits staff engaged in planning and preparing exhibits for the Museum of History and Technology. During the year exhibits units were prepared which will be installed in 16 of the galleries of the new museum. Some of these new exhibits were placed on temporary exhibition in the Arts and Industries building, but the majority of them were carefully packaged and stored until the new Museum is ready to receive them. Particular emphasis was given this year to the development of exhibits which will be installed next year in halls which will be open when the building is opened to the public. Benjamin W. Lawless continued to supervise the design and preparation of exhibits for the Museum of History and Technology, ably assisted by Robert Widder in design, Bela S. Bory in production, and Robert Klinger in the model shop. The staff of this laboratory also prepared additional exhibits for the Air and

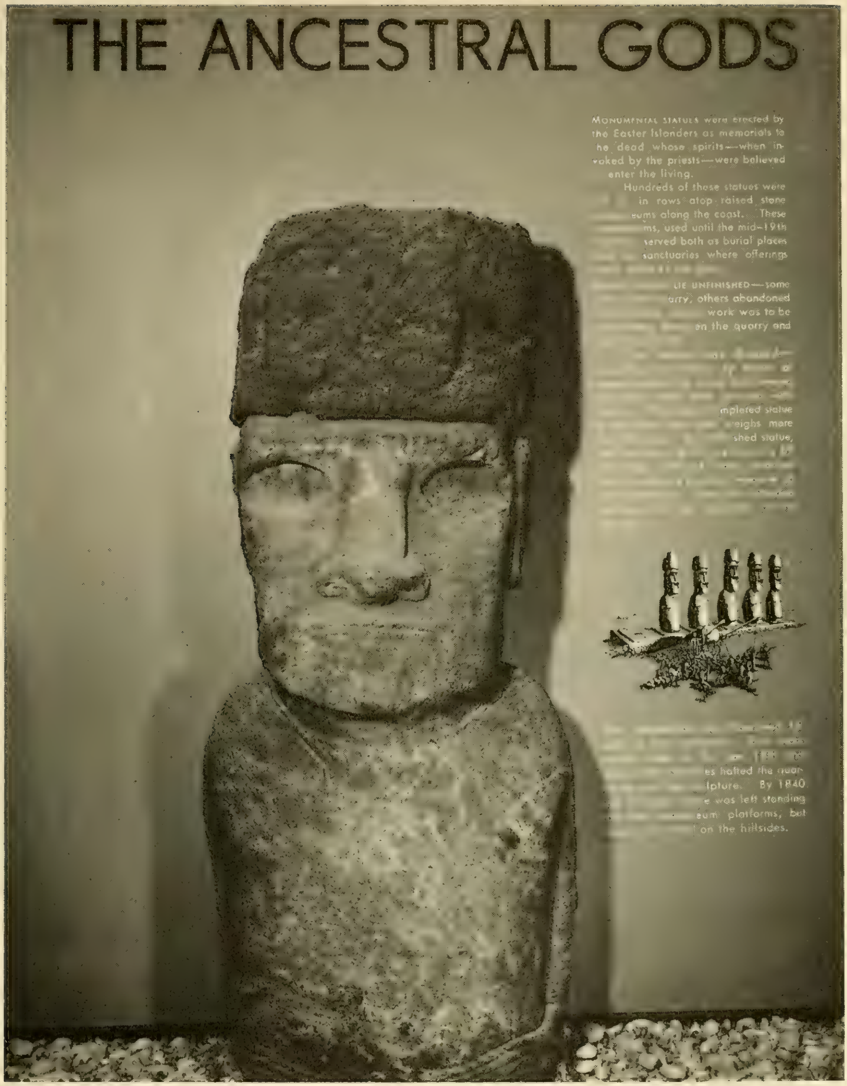
Space building, while two large temporary exhibits held in the Natural History building were designed and produced by members of the exhibits group in that building. Joseph G. Weiner, with the assistance of Constance Minkin and Edna Wright, continued the editing of the curators' drafts of exhibits scripts.

Anthropology

In the presence of ambassadors and other official representatives of a number of Pacific and south and southeast Asian countries the modernized hall of the cultures of the Pacific and Asia was formally opened to the public on June 28, 1962. The Honorable D. H. Nucker, Director of Insular Affairs, U.S. Department of the Interior, delivered the principal address at the opening ceremonies.

This hall now contains more than 50 exhibits which depict aspects of life, past and present, in the Pacific Islands, Australia, New Zealand, and the great arc of southern Asia from the Philippines to Pakistan. The exhibits are designed to acquaint the visitor with the complexity and sophistication of the many cultures represented. These range from the stone age to the highly advanced cultures of India, Pakistan, Malaya, and Indonesia, which have flourished for centuries. The peoples of Hawaii and New Zealand are depicted as they were when Europeans discovered them over a century ago. Present-day life is represented in such exhibits as a Sindhi kitchen scene in West Pakistan, a group of Cambodian village implements, and shadow puppets from Malaya.

The colors in this hall are lively and yet harmonious. As the visitor enters from the rotunda his attention is attracted by a large stone head from Easter Island mounted in front of a lighted red background. Among the other spectacular items in the hall are a 6½-foot piece of stone money from Yap, several of the almost priceless royal feather capes from Hawaii, and a life-sized Kathakali dancer representing a religious dance drama from South India. Interspersed throughout the exhibits of cultural objects are life groups depicting an Ifugao rice harvest in the Philippines, and domestic scenes among the Maori of New Zealand and the Samoans. Some of the exhibits display objects specially collected for the present installation, and they include recent gifts from India, Malaya, and other countries. Others show specimens from the Museum's older and more unusual collections, such as a variety of weapons and artifacts collected by the United States Exploring Expedition of 1838–42. Students of primitive art will find many pieces of esthetic importance in this exhibition.


THE ANCESTRAL GODS
MONUMENTAL STATUES were erected by
the Easter Islanders as memorials to
he dead whose spirits—when in-
voked by the priests—were believed
enter the living.
Hundreds of these statues were
in rows atop raised stone
eums along the coast. These
ms, used until the mid-19th
served both as burial places
sanctuaries where offerings
UE UNFINISHED—some
arry, others abandoned
work was to be
en the quarry and
mpleted statue
weighs more
shed statue,
es halted the quar
lpture. By 1840
e was left standing
eum platforms, but
on the hillsides.

This stone head, brought back from Easter Island in 1886 by paymaster Thomson of the USS *Mohawk*, greets the visitor entering the new hall, Cultures of the Pacific and Asia. It is 10 feet tall. (Other pictures on pages 32 and 60–69.)

Curator of ethnology Saul H. Risenberg specified the exhibits on the Pacific Islands, and associate curator Eugene I. Knez those on south and southeast Asia. Exhibits designer Dorothy Guthrie prepared the hall layout and graphic designs of the individual exhibits. Because of the rapid cultural changes now taking place in all the areas of the world represented in this hall, the curators expect to add to or modify the exhibits frequently.

Contract construction in the adjacent hall, which will contain an extension of the Asian exhibits and will also interpret the cultures of Africa, was nearing completion at year's end. Associate curators Gordon D. Gibson and Eugene I. Knez have been collecting and selecting specimens which will be installed in the hall during the coming year. When this hall is reopened, all four of the ethnological halls in the Museum will have been modernized.

Curator Waldo R. Wedel continued throughout the year to select materials and to prepare scripts for the exhibits in the second of two halls of North American archeology to be renovated. This hall will include displays which interpret archeological methods and objectives, early man in North America, and the archeological cultures of northeastern United States, the Middle Atlantic area, southeastern United States, the Mississippi-Ohio area, the Great Plains, and southwestern United States. Valuable aid in planning some of these exhibits was provided by Raymond S. Baby, Ohio State Museum (Mississippi-Ohio area); W. H. Sears, Florida State Museum (southeastern United States); and associate curator Clifford Evans (archeological methods and objectives). By the close of the year two-thirds of the exhibits had been designed, and installation was proceeding.

The hall assigned to Old World archeology is being planned under the scientific direction of associate curator Gus Van Beek. Following his return from fieldwork, Dr. Van Beek and designer Rolland O. Hower collaborated in working out the general layout of exhibits in this hall, which will present the setting and distinguishing characteristics of the prehistoric and historic cultures of the ancient Near East and the Mediterranean World.

Head curator T. Dale Stewart and associate curator of physical anthropology Marshall T. Newman are planning the subjects to be interpreted in the new hall of physical anthropology. Its location makes possible the presentation of early-man exhibits at the end of the hall adjacent to the entrances to both the Old World and New World archeology halls, while exhibits on man as a primate at the other end will be near the primate exhibits in the hall of osteology. Working with exhibits designer Joseph Shannon, the curators have devised a system of flexible exhibits which will facilitate future changes. At the close of the year nearly all the major decisions regarding hall organization had been made.

In addition to their activities in the exhibits modernization program, staff members of the department participated in the presentation of three temporary exhibitions. During September and October 1961 the division of ethnology collaborated with the division of cultural history in honoring the Eighth Congress of the International Musicological Society by presenting a display of musical instruments, among which were talking drums from the Congo, conch trumpets from Polynesia, bells from China, a gong harmonium from Thailand, and North American Indian rattles selected from the ethnological collections. From November 1961 to March 1962 this division collaborated with the division of military history in showing a selection of the weapons and armor from the Oliver La Gorce collection received by the Museum during the past year. The National Geographic Society cooperated in presenting this exhibition. Finally, in December 1961 and January 1962 the division offered a special exhibition of 80 newly cleaned and restored oil paintings of American Indians by the artist George Catlin, which was installed in the foyer of the Natural History building.

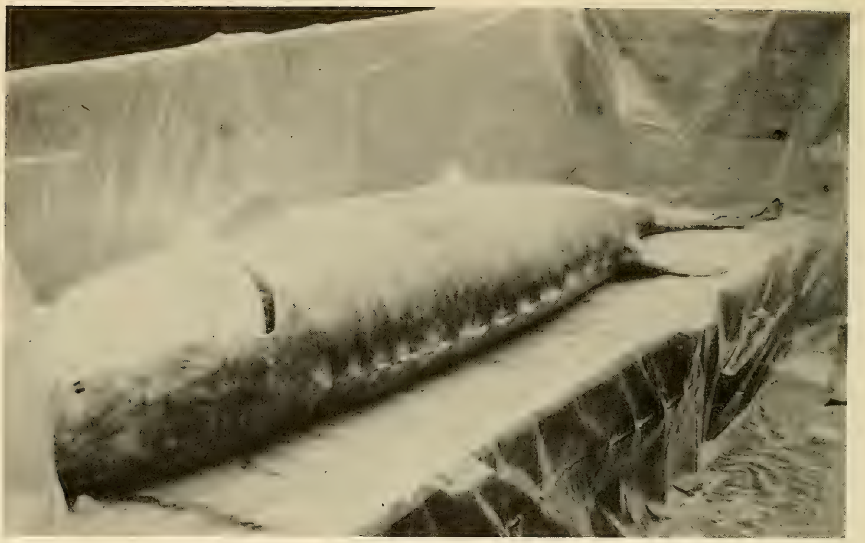
Zoology

During the year curators in all divisions of this department, except the division of insects, which has been assigned a separate hall to be developed later in the program, were deeply involved in planning three halls which are being completely renovated.

Dr. Fenner A. Chace, Jr., curator of marine invertebrates, continued to coordinate curatorial activity in the development of the hall of oceanic life, including the field collecting of specimens for exhibition, the specification of models, and the writing of detailed exhibit scripts. In April Dr. Leonard P. Schultz, curator of fishes, and John C. Widener, plastics expert, visited Vancouver, British Columbia, to make molds of a large basking shark, weighing over 2 tons and measuring 21 feet 6 inches in length, a 12-foot-wide manta ray, an 11-foot sturgeon, and an 8-foot sawfish. Through the generous aid of the B. C. Packers, Ltd., at Steveston, British Columbia, these large fishes were frozen and prepared for spraying with plastics.

Associate curator Donald F. Squires left Washington on May 2 for Noumea, New Caledonia, where he collected, prepared, and photographed the remaining materials required for the coral reef group. He was assisted by Thomas G. Baker of the exhibits staff. Fresh material for the sea snake group also is being obtained from the Pacific.

Dr. Chace and associate curators Charles E. Cutress, Jr., and Thomas E. Bowman wrote exhibits scripts and prepared specifications for detailed models of marine invertebrates which are being created by modelmakers. Mr. Cutress obtained from biological supply houses and individual collectors frozen specimens and photographs for use in preparing exhibits for this hall. He developed a method of



Freeze-moulding process: 11-foot white sturgeon *Acipenser transmontanus,* in plastic-lined box that will be filled with water so that fish can assume normal waterborne position. After fish is frozen, ice is chipped away so that it can be moulded in Fibreglas-reinforced plastic. The two sections of the mould, bottom, are examined by curator Leonard P. Schultz and exhibits specialist John C. Widener, who developed the process.

Preparing models of marine invertebrates for the hall of oceanic life.

quick freezing specimens in a cheesecloth "cocoon" so that they can be shipped long distances in styrofoam containers, with dry ice, without damage to fragile appendages. Curator of mollusks Harald A. Rehder also provided basic data to modelmakers and gave scientific guidance to exhibits personnel who are preparing models of mollusks for display in this hall. Model preparation continued throughout the year. Exhibits designers Gorman Bond and Morris Pearson are designing individual display units.

Curator of fishes Leonard P. Schultz served as chairman of the group of staff scientists who are collaborating with exhibits designer Barbara Craig in the development of the new hall of cold-blooded vertebrates. Other members of this planning group include curator of reptiles Doris M. Cochran and associate curators of fishes Ernest A. Lachner and William R. Taylor. They have prepared detailed outlines of exhibits which will interpret the life activities, anatomical adaptations, breeding behavior, distribution, evolutionary history, and the variety of the different kinds of fishes, amphibians, and reptiles. Habitat groups as well as topical exhibits will appear in this hall. The hall was cleared of all old cases and the contractor began new construction in it early in May 1962.

Botany-Exhibits Expedition recorded Kaieteur Falls, British Guiana, and its surroundings on film and canvas for rain-forest group in the new hall of plant life. Photographs will provide color data.

Under the chairmanship of curator of mammals David H. Johnson, representatives of each of the vertebrate divisions cooperated with exhibits designer Rolland O. Hower in planning the renovated hall of osteology. This hall will present a large series of skeletons of mammals, birds, reptiles, amphibians, and fishes, carefully selected to demonstrate relationships, variations, specializations, and adaptations. A systematic arrangement of the various groups will be retained as far as possible, and a section of the hall will be devoted to general topics such as the nature of bone and the interrelationships of skeletal parts. Taxidermists have begun the preparation of materials for exhibition. At year's end the hall was cleared in readiness for the beginning of the construction of cases and other built-in features of the modernized installation.

During the year "Martha," last of the passenger pigeons, was placed on exhibition in the bird hall. The temporary exhibit of mollusks in the west hall of the second floor was removed to make way for renovation activity in the cold-blooded vertebrate and osteology halls.

Botany

Planning is now well advanced for a hall of plant life which eventually will be constructed in the large hall north of the rotunda in the Natural History building.

In connection with these plans, a Smithsonian party of four spent 9 weeks early in 1962 in the interior of British Guiana, for the purpose of obtaining specimens, data, and models for the construction of a rain-forest group. It is proposed to use as the setting for this group the spectacular gorge below Kaieteur Falls, on the Potaro River. In this region the party made large collections of plant materials, took 2,500 Kodachrome pictures, and exposed 5,000 feet of color film, and prepared many life-sized models which can be duplicated at will for use in the life group. Sketches and paintings to be used as guides in the exhibit, including a scale painting of the Falls, were also prepared. The party, led by associate curator of phanerogams Richard S. Cowan, included associate curator of grasses Thomas R. Soderstrom, exhibits worker Reginald J. Sayre, and modelmaker Paul Marchand.

Geology

Development of the hall of fossil reptiles was this department's major exhibition project during the year. This hall will interpret the biological relationships among the reptiles through time. Exhibits will emphasize the various ways reptiles met environmental demands. By year's end major contract construction in this hall was completed, and six skeletons and four slabs of reptile footprints had been partially or completely installed by the division staff. Five additional specimens, two of them from the South African collection, were prepared for exhibition, and the preparation of five more South African fossils was in progress. The hall was designed by exhibits designer Ann Karras under the scientific direction of associate curator of vertebrate paleontology Nicholas Hotton III.

Additions have been planned or made to exhibits in three of the department's four halls which have been renovated. In the hall of the age of mammals in North America, a Pliocene diorama, prepared by N. N. Deaton, was installed. The agate slab of Miocene mammal remains and a slab of mammal footprints of Eocene age donated by the Shell Oil Co. were installed by the division staff. J. H. Matternes completed the large mural depicting an early Miocene assemblage, and carried a similar mural of Oligocene life more than 50 percent toward completion.

The addition of a large wall mural graphically depicting the great magnitude of geologic time has been planned for the invertebrate paleontology and paleobotany hall. Geologic time is perhaps the most important unifying concept of this hall.

Many new and outstanding gems, such as a 300-carat blue star sapphire from Burma, were added to the gem exhibit, and the quality of the mineral exhibit was further upgraded by substituting 176 specimens for a like number already in the cases. On November 9, 1961, the Jubilee diamond—weighing 245.35 carats and the third largest diamond in existence—was received on loan from its owner, Paul-Louis Weiller, and placed on exhibition for a period of about 8 months.

Science and Technology

Exhibits for five halls of this department, to be installed in the new Museum of History and Technology, were in production during the year.

Twelve new exhibits on health education and the history of medicine, pharmacy, and dentistry were installed in the gallery of medical sciences in the Arts and Industries building. They illustrate child health, the use of X-ray in medicine, hearing aids and the surgery of the ear, inhalers, masks and machines used in anesthesia, the development of the electrocardiograph, early pharmaceutical mortars and pestles, and dental drilling. These free-standing units will be transferred to the new Museum of History and Technology. Associate curator Sami K. Hamarneh, who worked closely with the exhibits staff in the design and production of these units, has also given technical supervision to the restoration of an 1890-period drugstore, one of the major exhibits in the new hall of pharmacy. Prior to his resignation, curator John Blake completed specifications for a diorama depicting an operation being performed in the amphitheater at the Pennsylvania Hospital, Philadelphia, in 1804. It will be a feature in the section of the new hall of medicine devoted to the history of surgery.

Curator Silvio A. Bedini has collaborated with designer Harry Hart in planning and developing the hall of tools. Nearly half the exhibits for this hall, begun in July 1961, were completed by the end of the year. One of them reproduces a 13th-century stained-glass panel, from the Cathedral of Chartres, depicting a turner at work. Another will be an equipped pre-Civil War machine shop.

Exhibits were completed for the largest section of the hall of light machinery—that devoted to the history of timekeeping. The displays for the phonograph section were ready for production. The

Exhibits designer Robert A. Widder and exhibits specialist Nadya Kayaloff use a model to study placement of exhibits in a hall dealing with the growth of the United States, in the Museum of History and Technology.

reproduction of the De Dondi clock, earliest known mechanical clock about which details have survived, will be one of the feature exhibits in this hall, for which associate curator Edwin A. Battison has specified the contents and Barbara Bowes provided the graphic designs.

Production was continued on the exhibits for the hall of civil engineering, and 42 units have thus far been completed, including 8 scale models illustrating the historic development of methods of soft-ground and hard-rock tunneling in Europe and America. Designer Harry Hart completed the graphic design of other exhibits in the section of tunneling. Associate curator Robert M. Vogel continued to prepare specifications for the models illustrating the history of bridge construction, and he also wrote a detailed script for the refrigeration section of the hall of heavy machinery, which will feature a number of demonstrations of the principally employed refrigeration cycles, as well as examples of refrigeration machinery.

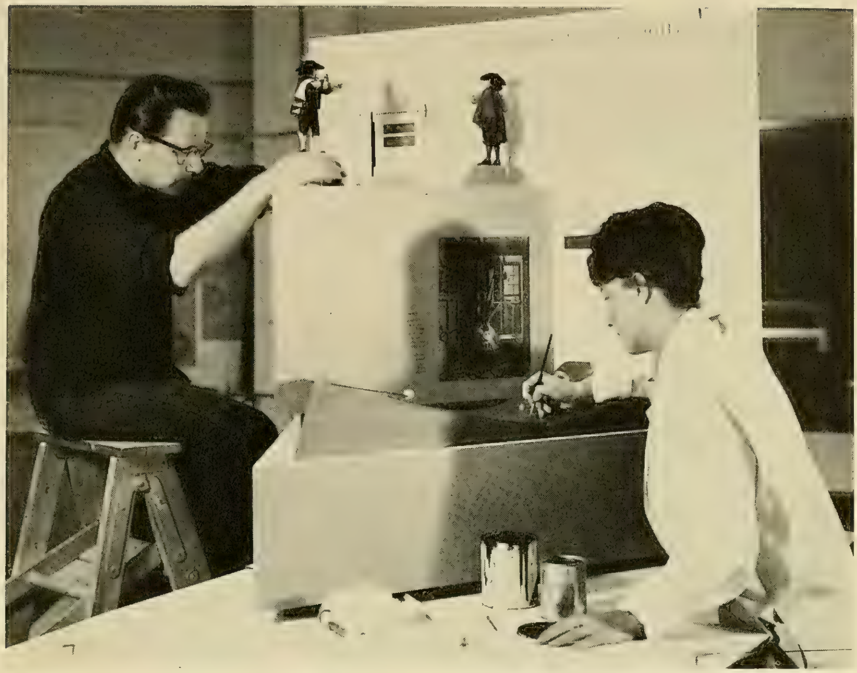
Under the scientific direction of head curator Robert P. Multhauf, 11 units in the section of the hall of physics and astronomy interpreting early physical science were completed, and additional units in both the classical and applied physics sections were prepared. By the close of the year, designer Ronald Elbert had completed the graphic design of the applied physics exhibits and was designing displays for the section of astronomy.

Production of exhibits for the street railway section of the railroad hall was completed and exhibits for the steam locomotive section of this hall were being prepared at the end of the year. In December 1961 the 92-foot, 280-ton Pacific-type locomotive *1401*, a gift of the Southern Railway System, became the first exhibit to be installed in the new building. Associate curator John H. White, Jr., completed the writing of scripts on the subjects of rails, brakes, and couplers, and he continued the specification of locomotive and car models for this hall. The construction of a model portraying the elevated railway of New York City was completed.

Three vehicles that are to be exhibited in the hall of autos and coaches in the new Museum were restored. The Lawrence coach, gift of Mrs. Richard Saltonstall, was placed on display in the Arts and Industries building in May 1962. The Winton Bullet and the Haynes automobiles were restored and returned to exhibition in the auto hall.

The program for construction of marine transportation exhibits in the watercraft hall of the new museum continued under the direction of curator Howard I. Chapelle. Exhibits designer James Mahoney completed a revision of the layout of free-standing exhibit units. A prototype case, especially designed for the display of ship models and equipped with a flexible system of adjustable mounting supports, was received and was being tested at the end of the year.

Dr. Robert A. Chipman, consultant in the planning of the hall of electricity, revised the scripts for the exhibits in wired communication and power, one of the three sections of this hall, and the graphic design of exhibits in this section was substantially completed. At year's end Dr. Chipman was preparing detailed scripts for exhibits in the section of radio communications. During the year an Edison incandescent lamp collection, previously in storage, and a color television set presented by the General Electric Research Laboratory were placed on exhibition in the Arts and Industries building. Other exhibits projects of the department during the year included the installation of Renaissance instruments in the southwest gallery, and the temporary exhibition of the newly acquired "Subway Engine" model in the rotunda during the months of May and June 1962.



Exhibits specialists Don Holst and Jamie Hitchcock prepare a unit featuring elaborate animation devices for the hall of physics.

Arts and Manufactures

Completion of the new exhibits for the textile hall gallery in 1961 reduced exhibits activity in textiles to the making of a few adjustments, the most important of which was a change in the mechanism of the quilt case. Because of the unexpectedly heavy use of this exhibit by the Museum's visitors, it became necessary to replace the dial-electronic system, used to select the quilt the viewer wishes to see, with a much simpler mechanical system.

Associate curator of agriculture and wood products Edward C. Kendall, in cooperation with exhibits designer Riddick Vann, developed a layout plan for the new forest products hall.

The greater number of the exhibits for the new hall of graphic arts are now on exhibition or are in storage awaiting the completion of the new building. However, additional prints and printing equipment to be displayed in the graphic arts hall were acquired during the year. The "Kelmscott Chaucer," a beautiful and important book printed by William Morris, was placed on permanent exhibition in May. Housed in a specially designed case, this book is a gift of the Honorable Clinton P. Anderson, a Regent of the Smithsonian Institution.

Associate curator Eugene Ostroff is revising the script for the hall of photography to include many new exhibits and to extend the possibilities for visitor participation. He revised the existing photographic gallery exhibits to provide more information on specific phases of photographic history.

Six special exhibits in graphic arts and three in photography were shown during the year:

	GRAPHIC ARTS	
Recent accessions	19 prints in various media	July 1–September 30, 1961
Early color illustrations in periodicals	19 prints from the collection	October 2–November 5, 1961
Prints by James L. Wells	22 prints in various media	November 6–January 7, 1962
Woodcuts and lithographs from the University of Wisconsin	21 prints	January 8–February 28, 1962
American etchings from the collection	22 prints	March 1–April 30, 1962
The lithographs of Childe Hassam (in collaboration with the Smithsonian Institution Traveling Exhibition Service)	42 prints	May 1–May 31, 1962
	PHOTOGRAPHY	
Carbro prints by Victor Keppler	45 color prints	March 1–31, 1962
Photographic interpretations by Clarence J. Laughlin	48 black-and-white prints	April 2–May 1, 1962
Architectural prints and color transparencies by Ezra Stoller	10 color transparencies 9 color prints 9 black-and-white prints	May 2–June 12, 1962

Preparation of exhibits for the hall of ceramics was continued, and by year's end more than 30 percent of the units for this hall had been produced. The designs for the ceramic fountain and decorative wall grill for the hall were selected by a jury from a group of designs submitted by students at the New York State College of Ceramics, Alfred, N.Y. Production of exhibits for the hall of glass was initiated in the laboratory in February. The stained-glass entrance panel for this hall has been produced. The exhibits for these two halls were specified by curator Paul V. Gardner and designed by Mrs. Dorothy Guthrie.

The detailed script for the hall of nuclear energy was substantially completed. Many exhibits in this hall will be reconstructions of early experiments, and much thought has been given to devising techniques which will demonstrate phenomena in a manner which will make them intelligible to the layman. The American Petroleum Institute appointed a special subcommittee to assist in the location of historical material and in developing petroleum exhibits.

A large number of typical machines have been acquired for the hall of general manufacturing, and research is being conducted preliminary to the drafting of exhibit script for this hall. Scripts for the hall of iron and steel and the hall of mining are in preparation.

Civil History

All three of the halls of the division of political history were in production during the year. Thirty-two units for the hall of American politics, planned by curator Wilcomb E. Washburn in cooperation with exhibits designer Robert Widder, have been produced in the laboratory. For the new First Ladies hall the Washington bedroom restoration was completed and the preparation of the Washington drawing room setting was well advanced. A diorama portraying Dolly Madison removing furnishings from the White House during the War of 1812 was completed. Eight of the mannequins in the First Ladies hall were given facial make-up in natural flesh colors by exhibits technician Dolores Gambino. Staff members and visitors to the hall have found this treatment less distracting than was the previous presentation of mannequins without facial coloring. Forty-six units for the hall of American costume have been produced, and a majority of the mannequins for the hall have been received and fitted with the costumes for which they were designed under the supervision of assistant curator Anne W. Murray.

The division of political history installed small temporary exhibits dealing with the political campaigns of 1840 and 1896, and an exhibition of commemorative objects associated with the three assassinated Presidents. A special exhibition of the dollhouse used by Fanny Hayes, the daughter of President Rutherford B. Hayes, when she lived in the White House from 1877 to 1881, proved very attractive to Museum visitors. This exhibition was arranged with the cooperation of Mr. and Mrs. Webb C. Hayes III and the Hayes Memorial Library of Fremont, Ohio, which owns the dollhouse. A Women's Rights exhibition is being gradually developed to give representation to previously neglected periods of this movement and to reflect more accurately its development in this country during the 19th and 20th centuries.

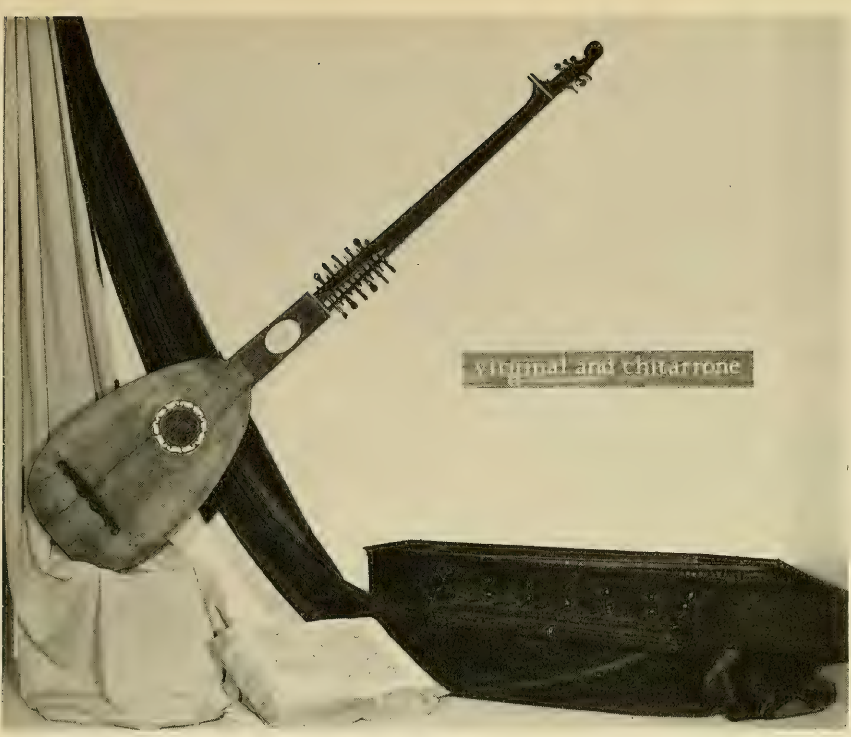
Production of exhibits for the hall of everyday life in the American past, planned by curator of cultural history C. Malcolm Watkins and designed by exhibits chief John E. Anglim, was continued, and by

A SPECIAL EXHIBIT
OF MUSICAL INSTRUMENTS

Opening of exhibit honoring 8th Congress of the International Musicological Society was marked by a demonstration of the recently restored Ruckers virginal of 1620 and Italian harpsichord of 1693.

year's end one-third of the units for this large hall had been prepared in the laboratory. Meanwhile, George H. Watson made marked progress in the restoration and trial erection of the series of period rooms which will be displayed in this hall. An exceptional collection of marked 17th- and 18th-century American pewter, lent by Dr. Joseph H. Kler, and a New York repoussé silver two-handled bowl, made in the early 18th century by Benjamin Wynkoop for Nicholas and Hilletje Roosevelt and lent by Mrs. Jack R. Hovey, were placed upon exhibition in the existing hall of everyday life in early America in the Natural History building.

Assistant curator Cynthia Adams Hoover prepared exhibit scripts for the hall of musical instruments in the new building. In collaboration with designer Joseph Shannon, she developed a very effective special exhibition of rare and seldom exhibited musical instruments from the Museum collections on the occasion of the Eighth Congress of the International Musicological Society in September. On view through October, this attractive display presented instruments asso-


virginal and chitarrone

Early 17th-century virginal and chitarrone from Italy, one of 19 exhibits prepared for the Congress of musicologists. North American Indian instruments, below, are from Museum's ethnological collections.

ciated with the traditional music of Europe and America, as well as instruments from Asia, Africa, and Oceania. Employing another dimension in exhibition, Mrs. Hoover in April directed a recital of late Baroque music in the auditorium of the Natural History bulding in which two restored harpsichords and an oboe and a one-keyed flute, both of the 18th century, were demonstrated.

Associate curator Peter C. Welsh, with the invaluable cooperation of Dr. Anthony N. B. Garvan, chairman of the Department of American Civilization at the University of Pennsylvania, continued to work closely with designer Robert Widder in planning the series of halls which will interpret the growth of the United States. The design of the hall devoted to the period 1750–1850, which will occupy an area of 9,500 square feet in the new museum, was approved. Selections from the Harry T. Peters *America on Stone* lithography collection continued to circulate under the auspices of the Smithsonian Traveling Exhibition Service.

Associate curators Francis J. McCall and George T. Turner and assistant curator Carl H. Scheele wrote and revised exhibits scripts for the new hall of philately and postal history. An introductory exhibit and the series of 11 units illustrating the postal history of the District of Columbia were designed, and 4 types of cases, specially adapted to the display of postal history materials, were constructed. The cooperation of the British Crown Agents enabled the division to prepare a special exhibition featuring new stamps issued by Seychelles, Fiji, Tanganyika, Swaziland, and the Postal Centenary issue for the West Indies. Also displayed were original drawings and design subjects for these stamps, items seldom seen outside the British Isles and of particular interest to philatelists. Another special exhibition presented stamps and covers which resulted from Project Mercury's successful orbital flight made by Col. John H. Glenn, a subject of timely interest to the public.

In the numismatics hall a specially designed semiautomatic case which can display an average of 800 coins was installed on an experimental basis. Its 40 trays, each measuring 2½ by 44 inches, are suspended between continuous chain devices. By pushing either of two electrical contacts imparting forward or backward motion to an electrically driven system of gears, the visitor may examine any tray in which he may be interested.

Armed Forces History

Curator of naval history Philip K. Lundeberg revised scripts for the naval and Marine Corps exhibits to incorporate recently accessioned specimens and to add graphic items to ship-model cases.

Associate curator Melvin H. Jackson prepared scripts for units on the history of the U.S. Revenue Cutter Service, forerunner of the modern Coast Guard, and planned exhibits to depict the development of other Treasury Department maritime services, such as the Lighthouse Establishment, Life Saving Service, and Bureau of Marine Inspection, as well as the modern role of the Coast Guard. Meanwhile, exhibits designer Fred Craig continued the detailed graphic design of exhibits for the Armed Forces halls and a number of these units were produced in the exhibits laboratory.

Nearly half of the exhibits for the hall of ordnance were produced during the year, including a series of displays on the development of firearms which effectively combines selected specimens from the collections with supporting graphics. These exhibits were specified by associate curator Craddock R. Goins, Jr., and were designed by exhibits designer John Brown.

Following the acquisition of the Continental gunboat *Philadelphia*, Mr. Brown devised a layout for the exhibition of this large and important specimen at the west end of the hall of ordnance in a position where it can be viewed from a distance and will be meaningfully integrated with the other exhibits in this hall. Dr. Lundeberg wrote scripts for the gundelo and closely related exhibits.

Curator of military history Edgar M. Howell worked on scripts for the Armed Forces history exhibits and for exhibits relating to the writing of the national anthem.

Important additions were made to the exhibits in the existing hall of naval history. Highlight of the completely restored series of World War I naval vessels was a strikingly camouflaged model of the cruiser *St. Louis*. Prominent among new Civil War models were the Union gunboat *Carondelet*, the Confederate ironclad *Fredericksburg*, and the Confederate submarine *H. L. Hunley*. A full-scale replica of the Curtiss A–1, first aircraft purchased by the U.S. Navy, was placed on exhibition with the cooperation of the National Air Museum.

A special exhibition of marine paintings and ship portraits by John W. Schmidt was held in the rotunda of the Arts and Industries building during December 1961 and January 1962. The division of naval history also cooperated with the Naval Historical Foundation in providing half models and other memorabilia for exhibits on naval aviation and naval aspects of the Civil War, held in the Truxton Decatur Museum. During the annual meeting of the Company of Military Collectors and Historians, a special exhibition of rare naval uniforms and flags of the Civil War period was presented.

Accessions

During the fiscal year 1962

The national collections were increased during the past year by 854,135 specimens. These materials were distributed among the 8 departments as follows: anthropology, 13,556; zoology, 480,003; botany, 32,236; geology, 115,387; science and technology, 2,363; arts and manufactures, 3,155; civil history, 205,358; and Armed Forces history, 2,077. This total includes 193,231 stamps and 414,075 insects. Most of the accessions were received as gifts from individuals or as transfers from Government departments and agencies. A full list of donors will be found on page 114.

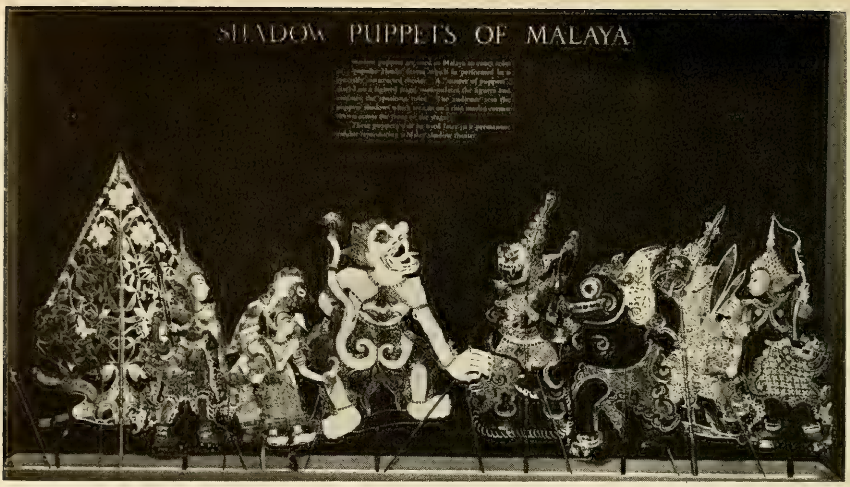
Anthropology

Most of the new material received this year in the division of archeology came by transfer from the River Basin Surveys, and consisted of one lot of 11,334 artifacts, mainly of mid-19th century white man's manufacture, from the site of Fort Berthold, N. Dak. Also received were the following important additions to the Latin American collections: 24 pre-Spanish textiles from Peru, presented by the International Business Machine Co.; a representative collection of 42 stone and bone artifacts from the early cultures of the Lagoa Santa area in Minas Gerais, Brazil, presented by H. V. Walter, of Belo Horizonte; and a type collection of 290 pottery and stone artifacts from various cultural levels on the islands at the mouth of the Amazon River, collected and donated by Drs. Clifford Evans and Betty Meggers.

The division of ethnology received 292 ethnological objects as a gift from the Government of India. Included in this generous donation is a complete assemblage of dance costumes of the Kathakali religious drama of South India, and textiles of unusual quality, representing a wide range of techniques and designs, including gold and silver embroidery. Another fine ethnological collection, donated by the Federation of Malaya through its National Museum in Kuala Lumpur, includes native musical instruments and a large number of shadow-theater puppets. Obtained from the Reverend Francis Lambrecht of Baguio, Philippine Islands, and from Dr. Harold C. Conklin, of Columbia University, New York, are 51 cultural objects of the Ifugao, one of the mountain peoples of the Philippines.

SPECIMENS IN THE NATIONAL COLLECTIONS MAY 31, 1962

Department of Anthropology		930, 518
Archeology	708, 967	
Ethnology	183, 822	
Physical Anthropology	37, 729	
Department of Zoology		29, 074, 750
Mammals	293, 455	
Birds	501, 681	
Reptiles and Amphibians	153, 290	
Fishes	1, 720, 767	
Insects	14, 769, 174	
Marine Invertebrates	1, 845, 409	
Mollusks	9, 741, 398	
Helminths	49, 576	
Department of Botany		3, 005, 978
Phanerogams	1, 903, 582	
Ferns	231, 227	
Grasses	380, 482	
Cryptogams	459, 424	
Woods	31, 263	
Department of Geology		13, 029, 478
Mineralogy and Petrology	401, 410	
Invertebrate Paleontology and Paleobotany	12, 582, 240	
Vertebrate Paleontology	45, 828	
Department of Science and Technology		70, 884
Physical Sciences	3, 565	
Mechanical and Civil Engineering	9, 910	
Electricity	4, 302	
Transportation	25, 176	
Medical Sciences	27, 931	
Department of Arts and Manufactures		142, 663
Textiles	34, 155	
Ceramics and Glass	15, 434	
Graphic Arts	48, 896	
Manufactures and Heavy Industries	33, 985	
Agriculture and Forest Products	10, 193	
Department of Civil History		9, 516, 949
Political History	44, 983	
Cultural History	20, 161	
Philately and Postal History	9, 322, 091	
Numismatics	129, 714	
Department of Armed Forces History		46, 720
Military History	38, 546	
Naval History	8, 174	
Total Museum Collections		55, 817, 940



Shadow-theatre puppets, above, and Kathakali dance costume, left, part of large collections of ethnological objects given by the governments of Malaya and India, respectively, for the newly-opened hall of the cultures of the Pacific and Asia.

For the first time the division of physical anthropology received a good collection of prehistoric skeletal remains from the Panama Canal Zone. The collection, assembled by Dr. Samuel K. Lothrop and donated by the Peabody Museum, Harvard University, comes from the Venado Beach site located at the Pacific end of the zone. A noteworthy feature of this collection is the presence of a type of cranial deformity heretofore known mainly from Mexico. The Southwestern chapter of the Archeological Society of Maryland donated 15 prehistoric Indian skeletons from the W. R. Winslow site along the Potomac River in Montgomery County, Md. Dr. Dan Morse, of Peoria, Ill., added two specimens from that State to the division's outstanding collection of skeletal evidence bearing on the history of tuberculosis among the earlier American Indians.

Zoology

To the collection in the division of mammals, Bernard R. Feinstein, of the Museum staff, contributed approximately 450 specimens from Vietnam and Cambodia, collected in cooperation with the Army Medical Research and Development Command and the Bernice P. Bishop Museum. The Smithsonian Institution-Alan Collins Expedition of 1961 contributed 163 mammals from previously unworked areas in Libya and Chad, collected by Dr. Henry W. Setzer, who also collected 183 mammals in the Aden Protectorate and, with Gary L. Ranck, 110 mammals in Tripolitania. Continuing the same project, Mr. Ranck added 758 additional specimens from Libya. From Panama and the Canal Zone, about 750 mammals were sent to the Museum by Vernon J. Tipton, C. M. Keenan, Carl M. Johnson, Pedro Galindo, Conrad E. Yunker, and other contributors representing agencies cooperating in the major project being conducted by Dr. Charles O. Handley, Jr. Several accessions from localities in the eastern United States include specimens collected by Kyle E. Barbehenn in Maryland and New York; by John T. Banks in Virginia; by Dr. Handley in Virginia, Georgia, and Florida; by Richard and Daniel Peacock in North Carolina and Virginia; by Daniel I. Rhymer in Virginia; and by Merlin D. Tuttle in Tennessee. Specimens of outstanding interest are 102 bats from Drotzky's Cave and vicinity, Bechuanaland Protectorate, presented by Mr. Laurence K. Marshall, and 5 rare dolphins, *Stenella microps*, from the west coast of Mexico, received from Dr. R. R. Whitney, of the U.S. Fish and Wildlife Service, and Dr. W. L. Klawe, of the Inter-American Tropical Tuna Commission.

In the division of birds a series of 583 bird skins, 27 skeletons, 3 alcoholic specimens, and 14 eggs were contributed by honorary research associate Alexander Wetmore. From the Republic of Panama

Gorgas Memorial Laboratory, 100 bird skins were received, and by transfer from the U.S. Department of the Interior, Fish and Wildlife Service, 419 bird skins, 47 skeletons, 1 alcoholic specimen, and 10 eggs were added to the national collections.

The division of reptiles and amphibians obtained 266 Colombian frogs from Dr. Fred Medem, Instituto de Ciencias Naturales, Bogotá, Colombia. Added to our South American holdings were the gift from Dr. Coleman J. Goin, of the University of Florida, of 116 Colombian frogs; an exchange involving the receipt of 9 South American frogs, including a cotype of a Colombian arrow-poison frog, from the British Museum (Natural History); and a gift of 105 South American frogs from Dr. James R. Tamsitt, University of the Andes, Bogotá, Colombia. Mr. William L. Witt, of Arlington, contributed 158 reptiles and amphibians from Virginia. From the U.S. Naval Medical Research Unit No. 2, were transferred 41 snakes from Taiwan, adding to the excellent collection from that island.

A major contributor of fishes to the national collections is the U.S. Fish and Wildlife Service. This cooperation in building up the Smithsonian research collections should be credited to the following individuals: Elbert H. Ahlstrom, W. W. Anderson, Harvey R. Bullis, John R. Clark, Daniel M. Cohen, Eugene Cypert, George F. Kelly, Craig Phillips, James G. Ragan, Donald W. Strasburg, and Paul J. Struhsaker. Dr. Edward C. Raney and Dr. Bruce Collette gave 2,500 fishes collected by the latter in Cuba, and Dr. Robert E. Kuntz and Lt. W. H. Wells transferred 1,412 fishes collected at Taiwan by the U.S. Naval Medical Research Unit No. 2. Through the efforts of Drs. J. A. F. Garrick and Victor G. Springer, and with the cooperation of many others throughout the world, 55 sharks, some 7 feet in length, were added to the collection.

A total of 417,197 specimens in 310 separate transactions was added to the collection in the division of insects. The largest and perhaps most important accession received was the A. L. Melander collection of Diptera, consisting of approximately 250,000 specimens, of which an estimated 1,200 are types. Through Dr. Alfred Brauer, the noted W. D. Funkhouser collection of Membracidae (Hemiptera) was received from the University of Kentucky. There are 23,855 specimens in this collection, including 247 holotypes. The Connecticut Agricultural Experiment Station donated, through Dr. James B. Kring, 346 type specimens, including 130 holotypes. Most of these types are Hymenoptera not previously represented in the national collections. Dr. A. Earl Pritchard presented his collection of 12,142 Diptera. N. L. H. Krauss has again made a substantial gift in donating 11,572 specimens principally from the Neotropical region. Col. Robert Traub presented more than 10,000 mites from Malaya and Thailand.

The Graham Heid collection of 2,243 specimens, chiefly Lycaenidae, from Atlanta, Ga., was also obtained. The Boyce Thompson Institute for Plant Research presented 7,966 miscellaneous insects through Dr. Albert Hartzell; Oscar L. Cartwright donated 7,500 Scarabaeidae from his personal collection; and Dr. C. M. Biezanko added 621 Brazilian insects. Dr. Nell B. Causey, University of Arkansas, donated 415 centipedes, most of which were collected in the southern United States. Among the Smithsonian and Department of Agriculture staff members who have participated in building the national collection are Dr. Paul D. Spangler, Mrs. Florence A. Ruhoff, Dr. Ashley B. Gurney, Dr. Karl V. Krombein, William D. Field, Dr. Willis W. Wirth, Dr. Curtis W. Sabrosky, Mrs. Doris H. Blake, and Dr. Oliver S. Flint, Jr. Received by transfer from the Insect Identification and Parasite Introduction Research Branch, U.S. Department of Agriculture, were 59,673 specimens retained in the course of identifications made by the combined staffs.

Outstanding among the accessions of marine invertebrates were 1,461 identified copepod crustaceans, including 2 holotypes, 2 allotypes, and 672 paratypes of 14 species donated by Dr. Arthur G. Humes, of Boston University. Received from Mrs. Will Hutchins, Washington, D.C., were 2,000 slides of bryozoans representing the personal collection of her son, the late Dr. Louis W. Hutchins; from Dr. Paul L. Illg, University of Washington, 22 specimens of 10 species of notodelphyid copepod crustaceans; from the Carnegie Institution of Washington, 1,800 lots of plankton from the cruises of the *Carnegie;* and by transfer from the U.S. Navy Hydrographic Office through William H. Littlewood, 360 miscellaneous marine invertebrates collected in the Ross Sea by J. Q. Tierney aboard the U.S.S. *Staten Island* during the U.S. Navy Deep Freeze Expedition of 1960–61. A gift of 208 amphipod crustaceans collected during a voyage in the Okhotsk Sea of the training ship *Hokusei Maru* was made by Dr. Sigeru Motoda, Hokkaido University. Collections made for the Smithsonian include 1,165 miscellaneous marine invertebrates from Puerto Rico by Dr. Thomas E. Bowman and 1,512 crayfishes from Alabama, Georgia, North Carolina, Kentucky, and Tennessee by Dr. Horton H. Hobbs, Jr.

Received by the division of mollusks from various sources were a number of important collections of marine mollusks from areas in the Indo-Pacific region poorly represented in our study collection. Purchased through the Chamberlain Fund was a marine collection of 702 lots containing 2,165 specimens from the Kudat area, North Borneo. Two collections of marine mollusks from the Seychelles, totaling 195 lots, 1,041 specimens, were received as gifts from Mrs. Margot B. Banks and Mr. Barry Grogan. By exchange from the Academy of Natural Sciences of Philadelphia, 92 lots, 920 specimens, of marine mollusks from Madagascar were received. The holotypes of six species of nudibranchs were donated by the Marine Laboratory of the University of Miami through Dr. Gilbert L. Voss.

Botany

The most significant accession of the year was received by the division of woods, the collection of 4,637 wood specimens of Archie F. Wilson, a business executive with a keen interest in woody plants, and for many years research associate of the Chicago Natural History Museum. This accession constitutes a more critically chosen group of specimens from a greater number of species than existed in the division prior to 1960. The Division of Forest Products of the Australian Commonwealth Scientific and Industrial Research Organization sent in exchange 727 wood specimens from Netherlands New Guinea, the first received by the Museum from that area. Important pollen slides received were 309 from Duke University and 642 from the Pan American Petroleum Corp., Tulsa, Okla. Curator William L. Stern made a collection of 136 wood samples of the highly endemic flora of the Hawaiian Islands for the Museum.

The rest of the department accessions were received in relatively small lots. From the Instituto de Botânica, São Paulo, Brazil, were received for identification 737 plants collected in Brazil by George Eiten, and from Harriet G. Barclay, 1,300 specimens she collected in Colombia and Ecuador. Dr. Walter H. Hodge donated 1,204 specimens of his collections from Dominica, British West Indies.

From the Gray Herbarium of Harvard University were received in exchange 873 specimens, largely from North America. Also received in exchange were 2,417 specimens of Indonesia from the Herbarium Bogoriense, Bogor, Indonesia; 950 plants of New Guinea and Australia from the Commonwealth Scientific and Industrial Research Organization, Canberra, Australia; 515 specimens collected in Alaska by J. E. Cantlon from Michigan State University; 300 specimens from Africa from the Istituto Botanico, Firenze, Italy; and 840 plants collected by R. M. King in Mexico from the University of Texas.

Dr. Thomas R. Soderstrom collected 1,091 specimens, mostly grasses, in Mexico; and Dr. Stern collected 1,423 specimens other than woods in Oregon, Colorado, Hawaii, and the Florida Keys, for the Museum. From the Geological Survey, Department of the Interior, were transferred 593 specimens collected by Dr. F. R. Fosberg on the Pacific Islands, and 766 specimens from Alaska collected by H. T. Shacklette; from the Agricultural Research Service, U.S. Department of Agriculture, 325 specimens of South Africa collected by H. S.

Gentry and A. S. Barclay; and from the Forest Service, U.S. Department of Agriculture, 415 specimens from Puerto Rico, collected by E. L. Little.

An unusual gift of 22 watercolor paintings of plants of Panama and Central America, made by Marie Louise Evans, was received from her daughter, Mrs. Robert L. Smyth, of San Francisco, Calif.

Geology

Received in the division of mineralogy and petrology was a very fine gem quality crystal of emerald weighing 176.66 carats from Muzo, Colombia, donated by Fred C. Kennedy. Gifts of new mineral species included: chambersite, Texas, given by Frank R. Beck; orthopinakiolite, Sweden, from the Naturhistoriska Riksmuseets, Stockholm, Sweden; and ferriphengite, Japan, from the University of Tokyo. Among the exchanges received were an extraordinary crystal of kunzite (the lavender gem variety of spodumene) weighing 5 kilograms and the following new species: birnessite, Massachusetts; rooseveltite, sigloite, and farallonite, Bolivia; kahlerite, Austria; yoshimuraite, Japan; cheralite, Malaya; sharpite and wyartite, Congo; and fleischerite, South West Africa.

Transferred from the U.S. Geological Survey, in addition to a number of suites of rocks and ores from various localities, were type specimens of the following newly-described species: gowerite, nobleite, and sborgite, California; and neighborite, Utah.

Among approximately 359 specimens added by purchase from the Roebling fund or by exchange were 2 groups of very large stibnite crystals completely altered to stibiconite, Mexico; 4 fine amethyst geodes, Brazil; a large single crystal of amethyst, Korea; 2 groups of unusually large axinite crystals, Japan; and a collection of 40 very fine wulfenite specimens from various localities in Arizona. A very large single crystal of danburite, Mexico, and a large tourmaline crystal from Baja California were acquired by purchase through the Canfield fund.

Received as gifts to the gem collection were a 423-carat sapphire, one of the largest and finest in the world, from Mrs. John Logan (the former Mrs. Rebecca Guggenheim); a large wine pourer carved in white jade, formerly a part of the Vetlesen jade collection, from Mrs. Mildred Taber Keally; and a female head sculptured in pink tourmaline by Oskar J. W. Hansen, from Ray A. Graham. Gem specimens acquired by purchase from the Chamberlain fund for the Isaac Lea collection included a 45.9-carat sphalerite, Spain; a kornerupine, 21.58 carats, Ceylon; smoky quartz, Brazil, 1,695.5 carats; a 71.05-carat brownish yellow spodumene, Madagascar; two scheelites, one weighing 37 carats, from California, and the other 7.35 carats, from Mexico; and a fine kunzite from Brazil, 63.30 carats; and the Seamon bequest of more than 1,000 fine quality minerals.

Outstanding gems received in exchange were a 287-carat peridot, a 330-carat blue star sapphire, and a ruby spinel weighing 36.10 carats, all from Burma, and an aquamarine from Brazil, weighing 187 carats.

Obtained as gifts for the meteorite collection were four specimens of the Murray, Ky., having a total weight of 163 grams, by Dyer Observatory, Vanderbilt University; a piece of a new carbonaceous chondrite from Belle, Tex., by Oscar Monnig, Fort Worth; and from Mrs. Jay Law, Garland, Utah, a complete stone which fell on her property. Fourteen meteorites were obtained by exchange with the following institutions: Geological Survey of India; Committee on Meteorites, Academy of Sciences, U.S.S.R.; Universitets Mineralogiske Museum, Copenhagen, Denmark; Geological Survey of South Africa; and Victoria University, Wellington, New Zealand.

Through the Walcott fund was acquired an unusual collection of fossil plants collected and prepared by Thomas J. Bones, Vancouver, Wash., over a period of 20 years. It consists of Eocene seeds, nuts, fruits, and wood from Oregon. The Walcott fund also made possible fieldwork which yielded 10,000 Cretaceous mollusks and 500 Foraminifera samples, collected by associate curator Erle G. Kauffman and Dr. Norman F. Sohl.

Donations from collectors outside the Museum accounted for the following gifts: 1,500 Lower Paleozoic fossils, from areas including Nova Scotia, Maine, Germany, and the Island of Gotland, from A. J. Boucot, California Institute of Technology; 345 type specimens of Foraminifera from California and the Mississippi Delta regions, from Miss Frances L. Parker, Scripps Institution of Oceanography; 175 type specimens of planktonic Foraminifera from the Caribbean region, from Dr. Pedro J. Bermudez, Venezuela; 87 ostracod types from the early Middle Ordovician of eastern United States and 146 types from the Gubic formation of northern Alaska, from Dr. F. M. Swain, Jr., University of Minnesota; 300 specimens from the Ripley formation, received from the Mid-South Earth Science Club of Tennessee; 350 specimens from the Devonian of the Spanish Sahara, from the Pan American Hispano Oil Co.; and 332 Mesozoic specimens from Saudi Arabia, from the Arabian American Oil Co.

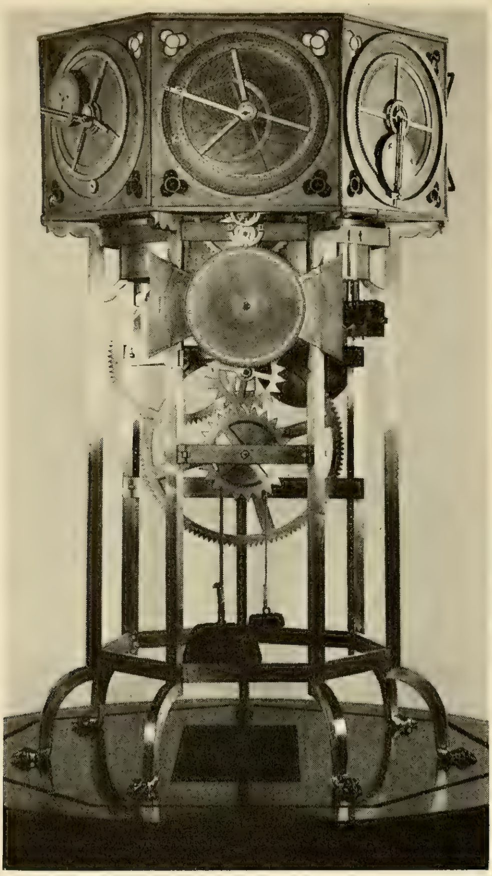
Transfer of collections from the U.S. Geological Survey includes the Hass collection of an estimated 40,000 conodonts, including several hundred types; 168 Middle and Upper Devonian cephalopods collected by Dr. Mackenzie Gordon in Morocco; an estimated 35,600 Bryozoa from the Lower Paleozoic of New York, West Virginia, Virginia, and Tennessee, collected by curator Richard S. Boardman.

The division of vertebrate paleontology accessioned a collection of fossil mammal-like reptiles from the Karroo, Republic of South Africa, representative of all levels of the Beaufort Series (Permo-Triassic). This collection, made by associate curator Nicholas Hotton III and James W. Kitching, of the Bernard Price Institute for Paleontological Research, University of the Witwatersrand, Johannesburg, helps document therapsid adaptive radiation, and shows the strong trend toward mammalian organization for which these animals are noted. The therapsids illustrate an important phase in vertebrate evolution heretofore unrepresented in the national collections. Worthy of mention also are the skulls of about 200 individuals of the Permian amphibian *Diplocaulus* collected by Dr. Sergius H. Mamay, of the U.S. Geological Survey, and Dr. Walter W. Dalquest, of Midwestern University, in terrestrial deposits of the Vale formation in Texas. Another outstanding addition to the collections is a 4-ton shipment of skeletal remains, almost all of the mammoth *Mammuthus columbi*, from a spring deposit on the ranch of Charles I. Lamb near Littleton, Colo. These remains were collected by a joint archeological-paleontological party under the supervision of curators Waldo R. Wedel and C. Lewis Gazin. Particular mention may be made of stratigraphically important accessions of Eocene and Paleocene mammals from new localities in the Fossil, Wind River, and Green River basins of Wyoming, and of early Oligocene mammal jaws and teeth from Pipestone Springs in Jefferson County, Mont., collected by Dr. Gazin and exhibits specialist Franklin L. Pearce.

Science and Technology

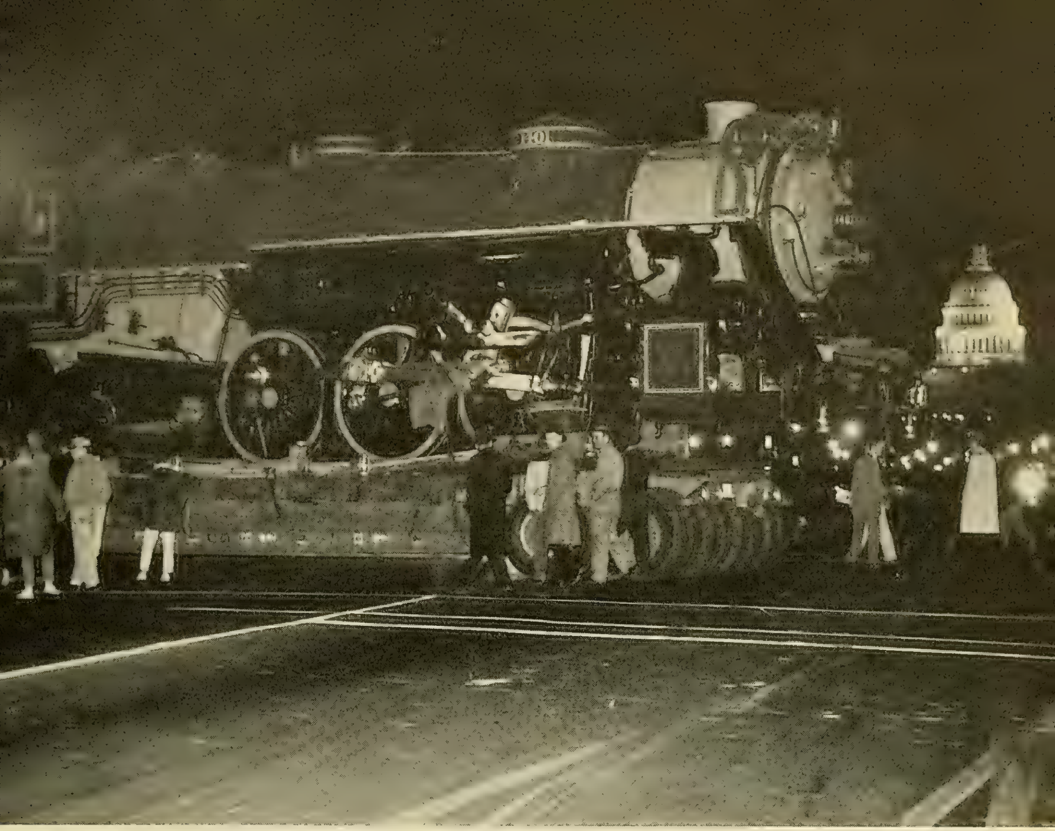
The division of physical sciences received examples of the rotating mirrors used by A. A. Michelson in his experiments in the determination of the velocity of light, from Mr. Preston Bassett and from Mount Wilson and Palomar Observatories. Telescopes representing the work of Alvan Clark & Sons and John Brashear were received from Dr. Henry E. Paul. Two of the earliest extant examples of photographs of the sun and moon, made by the pioneer scientist and photographer, John W. Draper, were obtained from New York University. The geophysical collections acquired a group of 12 globes painted to illustrate as many geophysical phenomena, from Prof. Rhodes W. Fairbridge, of Columbia University. Gulf Research & Development Co. contributed the pendulum apparatus for relative gravity determination which was developed by them in 1929. A repeating circle of the type used in the 1830's in the first geodetic surveys in this country was received from John Kusner.

The division of mechanical and civil engineering acquired a repro-



Reconstruction of the De Dondi astronomical clock of 1364, an intricate device that preceded by 200 years any comparable instrument.

duction of the celebrated clock of Giovanni de Dondi, constructed from contemporary 14th-century manuscript descriptions. The original clock, which disappeared from historical account over 400 years ago, was built in Padua between 1348 and 1364. It is the earliest mechanical clock of which details survive, but is in no way a primitive clock. The calendar and astronomical dials surpass by a wide margin any other known pre-Renaissance mechanism. The timekeeping collection was further augmented by an astronomical clock with torsion pendulum by the American inventor, Aaron D. Crane. This was the basis of the 400-day or anniversary clocks of modern times. Also received was an experimental model of the caesium-beam atomic clock developed at the Massachusetts Institute of Technology in 1956 by Dr. J. R. Zacharias.



Steam locomotive *1401* on its way from the railroad yard to its final home in the Museum of History and Technology.

The collection of heavy machinery acquired a simple condensing mill steam engine built in 1819 by Thomas Holloway, of Philadelphia. This severely simple machine, the earliest stationary steam engine in the collection, contrasts markedly with the refinement of the Matthias Baldwin engine built in the same city only 10 years later. Also added to this collection was a model of one of the Allis-Chalmers-Westinghouse engine generators of the type built in 1904 to power New York's first subway. One of the most important acquisitions of the section of tools was a multiple-spindle drill used from 1905 for the production of cash-register frames, donated by the manufacturer, the National Automatic Tool Co. Another important accession comprised a collection of tools, instruments, and documents representing the pioneering experiments in the 1920's of Prof. Orlan W. Boston, of the University of Michigan, in the investigation of metal-cutting processes.

The division of transportation received seven important builder's half models of west coast steamers and sailing vessels built by the Dickie Yard in San Francisco, through the courtesy of the University of California. Other models received were those of the Mississippi River stern-wheel steamer *Greenbrier*, the Chesapeake Bay steamers *Pocomoke* and *President Warfield*, a Letter-of-Marque schooner of 1815, the ferry boat *Jersey*, South Sea island trader *Tahiti*, Alaskan trader *Ounalaska*, a Florida shrimp trawler, and a North Carolina Sounds schooner. The latter two were received, respectively, from the Diesel Engine Sales Co. and from W. C. Matthews. The section of land transportation passed a landmark with acquisition of a full-sized example of a modern steam locomotive, *No. 1401* of the Southern Railway System, which was generously donated by that company. Two important carriages were also added to the collection, a landau of 1879, from Chauncey D. Stillman, and a buckboard of 1890, from Edwin H. Arnold.

The division of electricity received from the University of Michigan 11 examples of H. N. Williams' work with the magnetron, a high-frequency oscillator, dating from the 1930's. Obtained from the Radio Corp. of America was a group of cathode ray tubes used in the development of television. The color television system developed by J. M. Lafferty, of the General Electric Research Laboratory, in 1951 was represented by a tube received from that company.

Individual items of importance added to the electrical collections were printing telegraphs, received from the Western Union Telegraph Co. and the Netherlands Postal Museum; a set of Pupin loading coils arranged to stimulate the telephone circuit from New York to Boston, from the Armstrong Memorial Research Foundation; the Sorensen vacuum switch for power circuits, from Prof. R. W. Sorensen; and the radio sextant developed by the Collins Radio Co., transferred by the U.S. Department of the Navy.

The division of medical sciences acquired from the University of Illinois the remarkable Edward H. Angle collection of dental instruments and related material, and from Dr. Julius Lempert a collection of otological instruments representing his well-known work in that field.

Arts and Manufactures

Ten examples of buratto and drawn-work lace of the 16th through 19th century were presented by Miss Harriet Winslow to the division of textiles. Also added to this collection were a group of beautiful costume laces from Mrs. Beatrice E. Baker. A "Feathered Star" quilt made by the wife of Gen. Mordecai Gist and presented by Mrs. W. A. Pickens was also a noteworthy addition. Several interesting examples of silk embroidery on wool, used for infant wear, were received as a gift from Dr. and Mrs. Leonard Carmichael. A Jacquard coverlet, marked "U.S.A. 1829," was a notable gift from Mrs. James H. Macmillan. Three excellent needlepoint pictures, loaned several years ago, were bequeathed to the Museum by the late Miss Crystal Palmer. These fine examples were made by Miss Palmer's grandmother in the mid-19th century. Several 19th-century sewing machines were added to the collections. One of the most interesting was an 1859 West and Willson machine, a type not previously represented, from Mr. and Mrs. L. E. Isaacson.

A significant accession of the division of ceramics and glass is a collection of 18th-century porcelain, donated by Dr. Hans Syz, of Westport, Conn. Important pieces in this group include a Boettger tankard of red stoneware, 1712–15; a Boettger white porcelain bowl with applied decoration of rose buds and leaves, Ca. 1715; and a Viennese porcelain trembleuse cup and saucer, Ca. 1730–35. To her previous gift Mrs. W. A. Sutherland has added 25 pieces of porcelain, including 2 rare Bow mugs, Ca. 1760, and an unusual Chelsea dish, Ca. 1752.

The Honorable Clinton P. Anderson, a Regent of the Smithsonian Institution, donated to the division of graphic arts a magnificent example of printing, *The Works of Geoffrey Chaucer*, printed in 1896. Known as the "Kelmscott Chaucer," it is the handiwork of William Morris, whose concern with fine craftsmanship resulted in a revival of high standards in industrial design. Another important accession is a lithograph, *Divertissement d'Espagne*, by the great Spanish artist Francisco Goya, the gift of Mr. Albert H. Gordon, of New York City. This rare and valuable print is one of a set of four bullfight subjects that is considered the first great product of lithography.

Among the important prints acquired were two separate states of the lithograph *Il Tombe dans l'Abîme* by the French artist Odilon Redon; three lithographs from *Campaign Sketches* by Winslow Homer, the great American artist who documented the Civil War—*A Pass Time* (*Cavalry at Rest*), *Foraging*, and *The Baggage Train;* two color aquatints, *Juggler* and *Ballerina*, by Georges Rouault; five rare lithographs by outstanding American contemporaries—*Brown Moons* by Helen Frankenthaler, *Poet I* by Robert Motherwell, *Last Civil War Veteran* by Larry Rivers, *Speaker* by Robert Goodnough, and *Coathanger* by Jasper Johns; two chiaroscuro woodcuts, *The Visitation* after Annibale Carracci and *Statuette of Neptune* after Giovanni da Bologna, by John Baptist Jackson, the 18th-century master of the color woodcut.

The section of photography received an important collection of apparatus invented by Frederic Eugene Ives of Philadelphia, a pioneer in color photography. This group includes an Ives Lantern Kromskop, made about 1890, the first practical device to use 3-color separation positives for projecting full color on a screen; a group of slides for this projector; an 1894 Ives photochromoscope Kromskop stereo camera and viewer, and a large number of Kromogram slides for use in the viewer. The Kromskop System offered a method for taking color separation stereo pictures and viewing them in full color. Among the fine examples of photographic equipment and prints acquired by purchase was a Cinématographe, invented in 1895 by Auguste and Louis Lumière of France. This was one of the earliest devices to take and project (perforated) motion picture film.

Of particular interest among the items received by the division of manufactures and heavy industries are some of the first stampings of aluminum made from the first commercial production of the Hall process, presented by the Scovill Manufacturing Co. Another important acquisition is a Winsted machine; built prior to 1873, and in active use at the American Brass Co. plant at Waterbury until 1961, this machine is one of the earliest known. Dr. W. L. Libby donated the experimental equipment used in his pioneer work to establish the dates of archeological material by carbon-14 dating. The Catholic University of America gave two of the first X-ray tubes to be made in America. The section of iron and steel obtained the first steam hammer erected in the United States, built by Nasmyth between 1851 and 1856, and in use at Taylor-Wharton Iron & Steel Co., High Ridge, N.J., until 1935. The Bethlehem Steel Co. donated a section of the Gray mill, the first wide-flange universal beam mill to be erected in the United States. The United States Steel Corp. donated the pilot model of a Lorig aliner, an important innovation which speeded up the handling of strips of metal in continuous mills.

A water-powered sawmill, including the building, waterwheel, shafting, and gearing, was acquired by the division of agriculture and forest products. The mill, a fine representative of 18th- and 19th-century sawmills, operated an up-and-down saw and moved a 30-foot-log carriage against the saw. The New Holland Machine Co. gave a small portable gasoline engine of the early 20th century used to drive such machines as grinding mills and saws.

Civil History

Among the important accessions received in the division of political history is the personal memorabilia of President and Mrs. Woodrow Wilson. A black satin dress, worn by Edith Bolling Wilson the first time she dined at the White House, and a white silk dress she wore at a diplomatic reception in 1916, her first appearance at a state occasion at the White House after her marriage, were among the items received from Mrs. Wilson's estate through her personal secretary, Mrs. Margaret C. Brown. Mrs. Joseph P. Kennedy donated a white silk gown decorated with gold and silver sequins worn by her when she was presented at the Court of St. James's when her husband was ambassador to Great Britain. The dress was worn again in 1961 at the Inaugural Ball of her son, President John F. Kennedy. Mr. Ralph E. Becker, continuing his donations from his important campaign collection, presented a painted banner bearing a portrait of Thomas Jefferson, celebrating his victory in 1801. A silk campaign banner carried by the "Downers Grove Plough Boys," a Republican marching club of 1860, was given by Elbert A. Rogers, Downers Grove, Ill. A three-sided transparency, containing a portrait of Abraham Lincoln and campaign mottoes of 1860, was donated by Mrs. Robert A. Hubbard, Walpole, N.H. Made of cloth and wrapped around a wooden frame, the transparency, with torch inside, was carried on a pole in political parades. Another significant donation, by Mrs. Elizabeth Johnson Cristal, was the Adelaide Johnson collection. Adelaide Johnson, a devoted feminist, is best known as the sculptress of the Woman's Rights movement. The robe worn by Charles Evans Hughes as Chief Justice of the Supreme Court was received from the New Canaan Historical Society through Miss Dorothy Cocks, New Canaan, Conn.

Noteworthy donations to the collections of the division of cultural history include two early 19th-century blown-glass whale oil lamps, a 17th-century brass *couvre-feu*, and other domestic objects, from Preston R. Basset; a set of chamfered oak bedposts of a hitherto unidentified type of 17th-century Massachusetts bedstead, the gift of Virginia Beets; five paintings, 19th-century American, by E. L. Henry and Eastman Johnson, given by Mrs. Francis P. Garvan; and five diorite door and marker stones with primitive carved designs and dates, from the site of a mansion built by Lt. Gov. William Dummer of Massachusetts in Byfield in that State, donated by Mr. and Mrs. Stephen Twaddell.

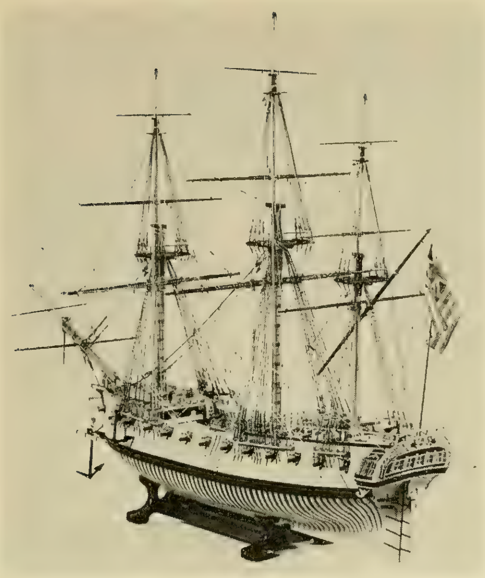
The division of philately and postal history received a specialized collection of the famous La Guaira local stamps. These issues, authorized by the Venezuelan Government, were prepared by Waterlow & Sons for the mail carried by steamship between La Guaira, Puerto Cabello, and St. Thomas beginning in 1864. Mr. L. W. Christenson of Cleveland Heights, Ohio, gave a collection of the issues of Manchukuo and of the Ryukyu Islands, which include postal stationery, booklets, covers, and a number of reference books. James A. Farley, former Postmaster General, donated a number of new covers. Dr. Joseph H. Kler, of New Brunswick, N.J., gave an initial portion of his prize-winning topical collection of stamps pertaining to Rotary International, and deposited the balance on loan. In eight albums are mounted many full sheets, singles, blocks, and many covers bearing appropriate cancels and cachets. Included also are several preliminary artists' drawings, some printers' proofs, and the Monaco color-error essay.

Added to the numismatic collections were the original obverse and reverse dies prepared in 1861 by Robert Lovett, Jr., of Philadelphia, for the proposed striking by the Confederacy of a copper cent, an issue which never materialized; the dies, two hubs made from the original dies, and other material in connection with the restrike of the Confederate cent in 1962 were received from Robert Bashlow, of New York. A rare 1916 pattern half dollar, a gift of Benjamin M. Douglas, and a silver ingot put out by the Nevada Silver Co. in 1876, a gift of Harvey Stack, of New York City, are also notable. A collection of 436 Polish gold, silver, and copper coins and medals was donated by Christian Zabriskie, of New York. This remarkable collection was started in the 1870's by the donor's father, Andrew Zabriskie, a noted U.S. numismatist. To his previous donations of Russian coins and medals coming from the famous Grand Duke Mikhailovitch collection, Willis H. du Pont added another significant group of 860 specimens, including many exceedingly rare pieces issued during the reigns of Czar Ivan III and Czarina Elizabeth (1740–62). An interesting group of Babylonian and Sumerian clay tablets recording commercial transactions was given by I. Snyderman, of New York. Mr. Pietro Giampaoli, chief engraver at the Rome Mint and one of the foremost medal engravers in the world, donated a select group of his own medals exemplifying various stages in his artistic evolution. A modern silver medal of exceptional artistic merit, issued by the Maison Carrée of Nîmes in 1961, was given by the Honorable Claiborne Pell, Senator from Rhode Island.

Armed Forces History

The division of military history received a unique 1842 pattern musket and set of Ordnance Department inspectors' verifying gauges, presented by Mr. William H. Guthman. A rare 13-inch bomb fired by the British fleet at the time of its attack on Alexandria in 1814 was received from the Department of the Army. The Victoria Cross and associated service medals awarded Private John McGovern for gallantry during the Indian Mutiny were received on long-term loan from the Royal United Service Institution, through the courtesy of Admiral Sir John Moore. A rare cavalry saber made by John Potter and formerly owned by Col. George Baylor, aide-de-camp to George Washington, was received on loan from Mr. David N. Rust.

Significant among recent additions to the Museum's extensive flag collections is the 48-star national ensign that served as the official flag



Fully rigged model of the Continental frigate *Raleigh*, which will become part of the series of exhibits on Armed Forces history in the new Museum.

of the 1960–61 Antarctic Expedition on its traverse from Byrd Station to the South Pole, presented by Rear Adm. David M. Tyree through Rear Adm. William Rea Furlong.

An important collection of objects recovered from Bermuda shipwreck sites dating from about 1621 to 1914 was added to the collections through the fieldwork of head curator Mendel L. Peterson, in cooperation with Mr. E. B. Tucker and the Government of Bermuda.

A most important accession was acquired by the division of naval history, the Continental gunboat *Philadelphia*. Oldest major American naval relic of the Revolutionary War, this vessel reached final moorings early in December 1961, when it was moved into the new Museum of History and Technology. A shot-scarred survivor of Benedict Arnold's gallant flotilla that opposed superior British invasion forces on Lake Champlain, this flat-bottomed gunboat was sunk at the Battle of Valcour Island on October 11, 1776. For nearly 159 years the *Philadelphia* lay on the muddy bottom of Valcour Bay, before she was located and raised intact in 1935 through the skillful efforts of Col. Lorenzo F. Hagglund, of New York, who donated the historic warship. Over 700 objects were recovered from the 54-foot gunboat, including her entire main battery of 9- and 12-pound guns, with their original carriages, as well as numerous other items of ship's equipage and the crew's gear. Brought to Washington with the generous assistance of the U.S. Coast Guard and the U.S. Navy, the oaken-hulled *Philadelphia* will shortly enter another episode in her long career, that of transporting the Smithsonian Institution's visi-

Exhibits specialists Walter Lewis and Deborah Bretzfelder restoring specimens of the early Spanish period for hall of everyday life in America in new Museum of History and Technology.

tors vividly and intimately to that precise moment in the Nation's history when this shattered warship, having fired her last shot in our struggle for independence, slid quietly beneath the waters of Lake Champlain.

Notable among early 19th-century naval accessions is an oil painting by Michel Félice Corn, depicting the engagement in 1812 between the *Constitution* and the *Java*, donated by Mrs. Mabel P. Garvan. The Department of the Navy has provided two early boarding pikes and a pair of mid-century gangway headboards on indefinite loan. Valuable light on the emergence of the steam Navy and its Corps of Engineers is provided in the professional correspondence (1847–67) of Chief Engineer James M. Adams, USN, donated by his great grandson, James Adams Knowles. Submarine operations during the Civil War are represented by a superb model of the Confederate submersible *H. L. Hunley*, constructed and presented by Mr. Floyd D. Houston, of New Suffolk, N.Y.

Care of Collections

SPECIMENS ACCESSIONED, IDENTIFIED AND DISTRIBUTED—FISCAL YEAR 1962

Departments	Accessions (transactions) 1962 (New)	Received on loan	Exchanged with other institutions	Transferred to educational institutions, etc.	Transferred to other Government agencies	Lent for study to investigators and other institutions	Specimens identified
Anthropology	93	0	77	1	0	927	15, 442
Zoology	798	6, 810	7, 194	0	18	191, 880	21, 149
Botany	414	5, 190	21, 930	1, 669	22	24, 409	18, 363
Geology	368	555	1, 490	0	169	7, 191	38, 056
Science and Technology.	316	3, 099	8	0	0	101	186
Arts and Manufactures.	232	6, 748	1	1	0	36	6, 522
Civil History	583	12, 244	119	1	0	71, 186	37, 347
Armed Forces History.	130	56	1	0	0	492	3, 238
Total	2, 934	34, 702	30, 820	1, 672	209	296, 222	140, 303

Anthropology

Chief exhibits specialist A. Joseph Andrews cleaned and repaired about 400 specimens from the ethnological collections. Restorer Henri G. Courtais was engaged to remounting, cleaning, and restoring the last 108 of the 450 George Catlin paintings under the care of the division of ethnology.

A new procedure was adopted during the year for the preservation of ethnological materials subject to insect damage. A liquid fumigant is now being placed in tin cups on the inside of the storage-case doors and renewed semiannually. The insecticide used is a mixture of carbon tetrachloride, ethylene dibromide, and ethylene dichloride.

Zoology

Receipt of large accessions, disturbances caused by construction projects in various specimen-storage areas, preparations for the move of the division into new quarters, and activities of the exhibition program have all added greatly to the usual work of caring for the mammal collection. The general rearrangement and merger of the main collection of skins and skulls with that of the U.S. Fish and Wildlife Service continued. Progress was made with the rodents and work was initiated on the carnivores and ungulates. A part of the osteological laboratory was completely renovated for the immediate purpose of providing a place to prepare and restore skeletons for the planned hall of comparative osteology, and ultimately, for providing improved expanded working space for regular osteological preparations.

All specimens accessioned in the division of birds have been fumigated, identified, and cataloged. Sixty-one new storage cases that have been on order for several years have been installed and are now in use. The taxidermy staff skinned and made up 67 birds and mounted 5, prepared 28 eggs, and partially completed 6 skeletons.

An inventory of the snakes in the division of reptiles is approximately one-third complete, and three large tanks have been installed in the Natural History building for the maintenance of some 50 large sharks in the division of fishes.

As part of the general shifting of collections preparatory to occupying space in the wings now under construction, th enational collection of insects was moved from the Natural History building to temporary quarters on Lamont Street. This change, begun on April 2 and completed on May 25, involved moving 43 specialists and subprofessional staff members, including those of the U.S. Department of Agriculture stationed in the Museum, together with more than 400 tons of equipment. As a result, the staff has adequate space for the first time in many years, and for the first time in more than 25 years it has been possible to achieve a satisfactory arrangement of many components of the collections.

The transfer, labeling, and arrangement of the A. L. Melander collection of Diptera has progressed significantly, so that 162,931 specimens, including 421 types of various sorts have been placed in trays and standard insect cases. The residue of three collections of Hemiptera (Ball, 2,472 specimens; Kirkaldy, 1,252 specimens; McAtee, 4,576 specimens) received many years ago have been completely incorporated in the Museum series, as has the Lutz collection. Of the Funkhouser collection of Membracidae, 9,320 specimens have been labeled and 247 holotypes have been segregated. Summer intern W. Donald Duckworth continued his rearrangement and refinement of the Stenomidae (Lepidoptera) during the summer of 1961. He now has identified to genus most of a mass of unworked miscellaneous material, much of it undescribed. Restoration and identification of unnamed chilopods has progressed to the point that the Museum probably now has the finest named collections of Geophilomorpha and Lithobiomorpha in the Western Hemisphere.

In the division of marine invertebrates, museum aide Elizabeth C. Preston, assisted by summer intern Toni G. Sandler, completely reorganized the invertebrate material mounted on slides. It is now housed in new, metal slide cabinets and, for the first time in many years, is readily accessible to visiting specialists. Associate curator Donald F. Squires has devoted most of his attention to plans for the reorganization of the collections of hard corals. Progress was made toward completing the reorganization of the east Atlantic collection of marine mollusks, and with the assistance of a temporary aide, the reorganization of the western Atlantic collection is now half completed. The helminthological collections have been moved into new quarters. The operation has permitted a better organization and arrangement of these collections, and has uncovered much uncataloged material that has been added to the study collection.

Botany

The lichen collections have been placed in printed genus folders. Museum aide Edward A. Avery incorporated the large and important Wilson collection of 4,637 wood specimens into the collections, and 2,500 specimens of wood collected in Sumatra under the auspices of the late Harley H. Bartlett, of the University of Michigan, are being arranged for incorporation. The latter will constitute an important accession because each is associated with an herbarium voucher, and many represent species not heretofore represented in the wood collection.

The major activities in caring for the permanent collections and the processing of new material are summarized in the following table:

	1960–61	*1961–62*
Specimens and photographs mounted	25, 946	31, 030
Specimens repaired	11, 693	11, 463
Specimens stamped and recorded	33, 462	16, 341
Specimens incorporated in herbarium or added to the permanent collections	98, 442	27, 892

There are now 59,136 types in the segregated type herbarium, including 41,170 phanerogams, 10,088 grasses, 3,482 ferns, and 4,396 cryptogams. This is an increase of 698 types during the year.

Geology

Most of the ore collection in the division of mineralogy and petrology has been cleaned and rearranged, and a large number of specimens, obtained by reducing the size of large massive ore specimens formerly on exhibit, have been added. Described mineral specimens were separated from the types and integrated into the general collection, each being clearly marked and referenced in a card catalog if the information has been published. Unpublished data are kept readily available in an information file. The type mineral collection was rearranged and checked against the index file, and, when necessary, with the original reference. In the process several type specimens were found in the general collection. The meteorite collection is in good condition.

Plans for moving and the arrangement of collections of invertebrate paleontology and paleobotany in preparation for the move to the new wing are now essentially complete.

In pursuance of the objective of publishing catalogs of the type collections in the division, museum aide Louis R. Purnell, under the direction of associate curator Erle G. Kauffman, has completely reorganized the nautiloid cephalopod type collection, and museum aide Frederick Collier has done likewise for the conodont types.

Museum aid James P. Ferrigno, under the direction of associate curator Richard Cifelli, prepared and identified some representative assemblages of planktonic and benthonic Foraminifera from samples collected and under study by Dr. Cifelli. Thin sectioning of primary types of type species is revealing many unused taxonomic features in the walls of the Foraminifera that will certainly be of value in future classifications. The Paleozoic mollusk collection was reorganized alphabetically by museum aides Purnell and Henry A. Jones, under the direction of Dr. Kauffman. The Renfro collection of Mesozoic fossils was sorted both stratigraphically and biologically and much of the newly collected material prepared for incorporation into the reference set.

The preparatorial staff in the division of vertebrate paleontology has been occupied mostly with repair work of the African exhibit material. These fossils are very well preserved, but are contained in an extremely refractory matrix, most of the rock, including cement, consisting of silica. The result is a special problem of preparation, requiring great patience, judgment, and skill. It should be noted that, with no prior experience in the peculiar difficulties of Karoo fossils, the preparators are producing results entirely worthy of the excellent quality of the collection.

Special mention is made of a technique being devised for the preservation of delicate Pleistocene material by exhibits specialist Franklin L. Pearce. The major difficulties of working this material are its large size and its tendency to spall and split. The specimen is first permitted to dry thoroughly at room temperature and humidity. It is then warmed through as evenly as possible by radiant heat from 300-watt, self-reflecting spotlights, and impregnated with beeswax, which is placed on the specimen in slices while it is under the lights. The lights are placed about 12 inches above the specimen to avoid scorching it; at this distance each light heats effectively an area of about 80 square inches. The wax is readily melted under these circumstances and penetrates well into thoroughly warmed fossils; penetration can be gauged by bubbling of the melted wax as air is displaced from interstices in the bones. After bubbling has ceased, excess wax is melted off the surface with a small propane torch, due care being taken to avoid scorching, and the surface is rubbed down with coarse and fine steel wool. Results to date are satisfactory; a mammoth tusk treated in this way was sectioned without any breaking or chipping, and showed that, although penetration was not complete, it was more than adequate to maintain structural strength, prevent distortion, and preserve the surface. Investigation of the technique continues.

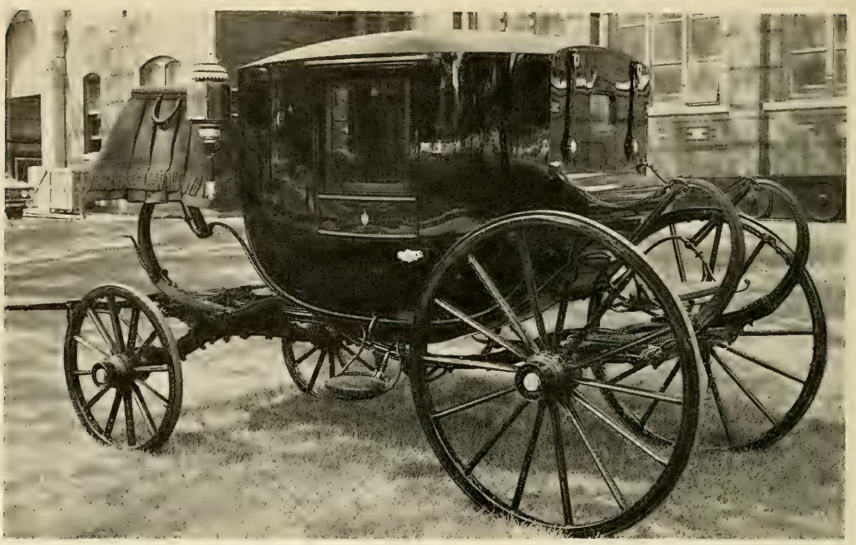
Science and Technology

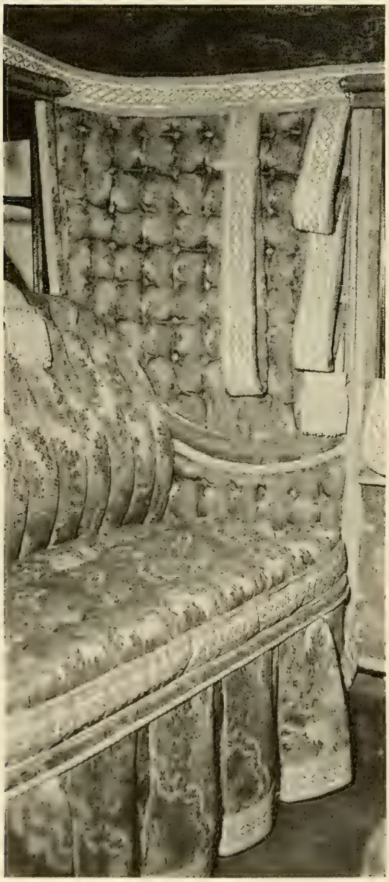
In the division of mechanical and civil engineering, museum aide James D. Fisher cataloged and classified the collection of over 3,000 linen drawings of mining machinery designed by E. D Leavitt. A general improvement of records and storage procedures was undertaken in the division of electricity. Museum technician Elliott N. Sivowitch completed a survey of magnetos, motors, and generators, of which there are about 160. Assistant curator Joseph E. Rudmann completed a listing of specimens directly relating to Alexander Graham Bell, sorted and filed by subject matter the Hammer collection of documents, and prepared a card file of portraits of scientists and engineers.

In the division of medical sciences, museum technician George H. Ford, Jr., worked on cleaning, marking, and preserving individual specimens in the collection, and museum technician Everett A. Jackson prepared an organized list of the dental collection.

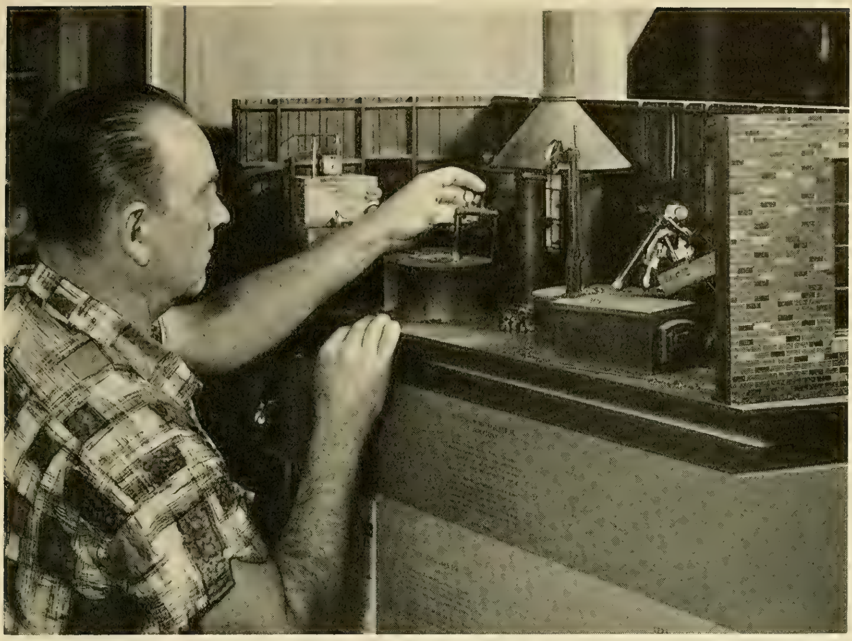
Arts and Manufactures

In the division of textiles museum aide Marjorie L. Fogle began reorganizing the collections so that like items are stored together. The use of silk crepeline, almost imperceptible when placed against a fabric of suitable color, was initiated as the result of the attendance by museum aide Doris M. Bowman of a lecture given by Dr. Renate Jaques, of Germany, at the Cooper Union Museum in New York. Because of the strength and appearance of crepeline, it can be used to reinforce and support fragile textiles without changing their appearance. Experiments are being initiated to use this fabric in the storage-exhibition frames so that fabrics mounted between two layers can be viewed from front and back.





This town coach, gift of Mrs. Richard Saltonstall, was restored and placed on exhibit. It was built in 1851 by Thomas Goddard of Boston.



Scale model of Bethlehem metallurgical laboratory receives final touches from exhibits specialist John Wink, who entirely overhauled the exhibit.

The cataloging and accessioning of new objects in the division of ceramics and glass, and recataloging and checking identification of objects transferred from other divisions, are progressing satisfactorily. Museum aide James W. Norwood has continued the task of rematting prints in the division of graphic arts and placing them in new storage units. In the section of photography associate curator Eugene Ostroff identified unmarked specimens in the collection of photographic equipment and cross-indexed them according to manufacture and design. In the division of manufacture and heavy industries, museum aides John C. Carter and Francis Gadson continued a program of cleaning and renovating recent acquisitions and existing holdings. The collections of the division of agriculture and forest products are in good condition, through the efforts of Museum aide John M. Wingo.

Civil History

Most of the campaign collection of the division of political history was centralized and arranged, and the manner of storing specimens improved. Items in poor condition were sometimes protected by lamination or by use of special protective covers or storage folders. For campaign jewelry special felt-covered display boards were utilized. The organization and preservation of the growing collection of American costume progressed. Assistant curator Anne W. Murray devised a chemise-type garment to be mounted on a hanger to serve as a support for skirts to be displayed on mannequins, such as those in the present display of American costume. This type of support will also be useful in storage to support the weight of the skirt or dress.

Rehabilitation of the musical instrument collections in the division of cultural history was advanced under assistant curator Cynthia A. Hoover. Restoration of a harpsichord made by Johann Daniel Dulcken, of Antwerp, 1745, is the most recent of several completed restorations of keyboard instruments in the Hugo Worch collection; such restoration permits the instruments to be played and their musical qualities to be demonstrated. The program provides also for a long-range plan of partial restoration and stabilization of instruments not capable of being returned to playing condition, and of tuning and maintenance to assure the constant preservation of this notable Smithsonian collection.

Through the cooperation of the Union Carbide Corporation, the opportunity to test a new and promising method of protecting silver coins and medals against corrosion was given the division of numismatics. The product tested is a low-viscosity solution containing 7.5 percent silicone solids in a solvent system formulated primarily for spray application. This product is or will be available shortly under the name Y–2448 Silicone Silver Finish. The results were satisfactory. Y–2448 may be used mainly for protecting bright, brilliant objects. Matt surfaces, especially of bronze medals and coins, should not be coated using this or any other product currently available because of the resulting "wet" appearance. Experiments will be conducted to overcome this drawback.

Armed Forces History

Museum specialist Donald E. Kloster and summer intern William F. Navarre continued the rearrangement and recataloging of the reference collections of the division of military history. Under the direction of curator Edgar M. Howell, and with the technical advice of curator of textiles, Grace Rogers Cooper, the Star Spangled Banner was prepared for final installation in the rotunda of the new Museum of History and Technology. To obviate the least possible strain on the fibers of the flag and to insure hanging without puckers, 2-inch linen tapes, woven to the exact specifications of the present linen backing, were carefully stitched to the reverse of the flag backing on 12-inch centers. The flag will be hung from those tapes.

Among the half models restored for the division of naval history were the sloop *Erie*, brig *Truxtun*, side-wheel frigate *Fulton II*, side-wheel steamer *Waterwitch II*, screw steam sloop *Princeton*, steam frigate *Allegheny* (with the Hunter wheel), steam sloop *San Jacinto*, steam sloop-of-war *Kearsarge*, and the casemated Union ironclad *New Ironsides*.

Under the direction of curator Philip K. Lundeberg, special measures were taken to insure safe delivery of the gunboat *Philadelphia* from upstate New York during July 1961. This vessel's entire oaken hull and major fittings were impregnated with spray applications of polyethylene glycol (33%) for basic preservation and to render her more limber in transit. It is worthy of special mention that, although submerged in fresh water for nearly 159 years, this historic warship proved remarkably durable, notably in the area of her bottom planking. Encased in a stout boat-shaped crate designed by curator of transportation Howard I. Chapelle, the *Philadelphia* was skidded overland half a mile to the shores of Lake Champlain, ramped out to an awaiting barge, and towed through the Lake Champlain-Hudson River Canal to Albany. Here the Coast Guard buoy tender *Firebush* expertly hoisted the 54-foot gunboat onto her main well deck and proceeded via the intercoastal waterway to the nation's capital, where she temporarily found haven at the Naval Weapons Plant.

On December 12, 1961, the *Philadelphia* was swung into the third floor of the new Museum of History and Technology to await completion of her special exhibit hall.

Further applications of polyethylene glycol strengthened with a suitable fungicide are contemplated for the completion of the gunboat's preservation. Steps meanwhile had been taken under the direction of head curator Mendel L. Peterson, to preserve some 720 individual objects recovered with the gunboat. Museum aide John P. Ellis applied a similar solution of the preservative to smaller wooden items. Ferrous objects in the collection have been cleaned, repaired, and coated either with hot wax or Krylon, depending on surface condition.

Research continues on basic techniques to establish preservation methods for dealing with badly corroded or heavily water-soaked objects recovered from underwater sites. As in the past, a wide variety of ferrous metal objects have been effectively stabilized in electro-reduction baths containing 10 percent sodium hydroxide and mossy zinc. Freshwater leaching baths have been maintained to desalt a variety of specimens.

A 16th century Spanish sword encrusted with a fragile layer of calcareous sand was successfully embedded in a polyester alkyd styrene

The late Emilio Estrada, center, in helmet, inspecting excavations at the Valdivia site on the coast of Ecuador.

block. Numerous pottery sherds collected from Spanish shipwreck sites were cleaned, separated, and partially reconstructed. Experiments were continued in an effort to perfect the treatment of old water-soaked wooden objects, using alcohol dehydration techniques and alum, and polyethylene glycol and Arigal W.P. impregnation.

Museum aides John L. Rawls and Harold W. Ellis continued restoring and organizing specimens and graphic items by exhibit groups for installation in the new Museum of History and Technology. Among the significant items restored were the fife rail of the *Hartford*, the wheel of the *Brooklyn*, and several mid-19th century gangway headboards.

Investigation and Research

Museum of Natural History

Anthropology

At the Gordon Research Conference on the Chemistry, Physiology, and Structure of Bones and Teeth, head curator T. Dale Stewart read a paper on the last phase of human evolution before the section on "Evolution of Bone as a Tissue." In Austria he participated in the Wenner-Gren Symposium No. 16, "Anthropology and the Conditions of Individual and Social Freedom," at Burg Wartenstein, near Glognitz. One of 14 participants, Dr. Stewart's contribution dealt with the biological and medical conditions of human freedom. From Austria he continued on to Zagreb, Yugoslavia, where he examined in the Paleontological Museum of that city the skeletal remains of the Krapina Neanderthals recovered in 1905.

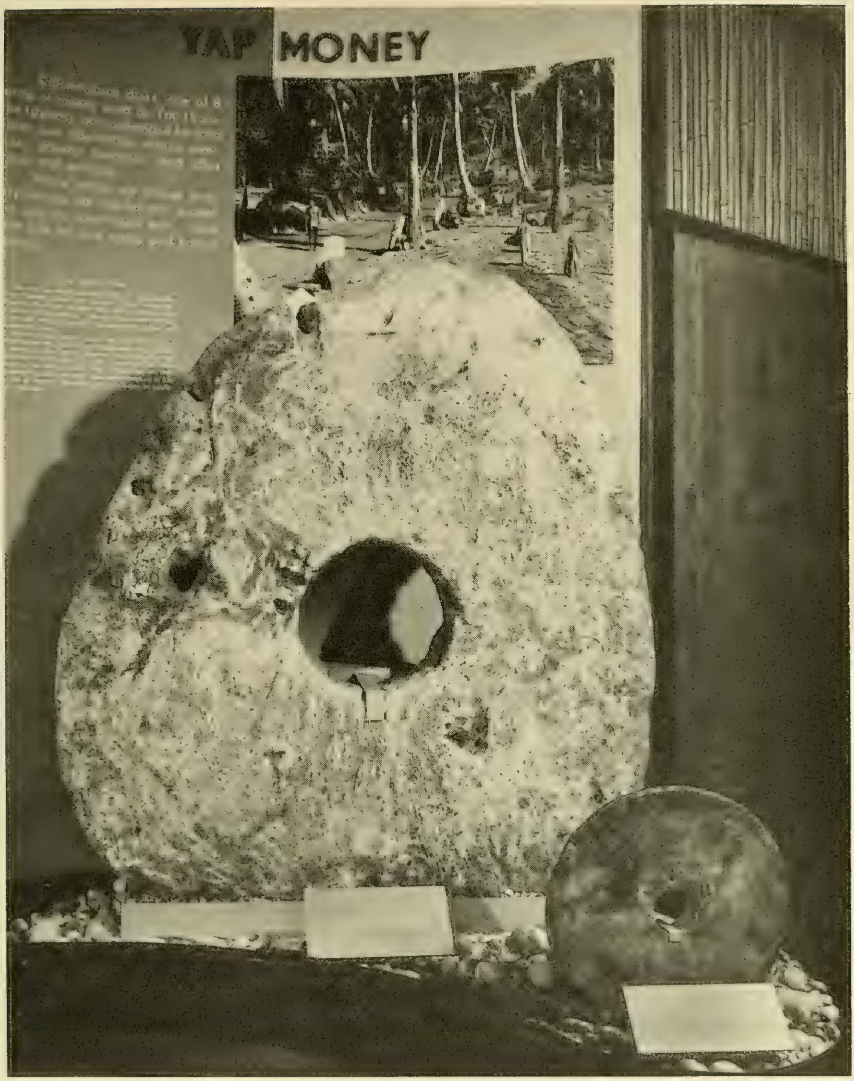
In the course of the year Dr. Stewart completed four manuscripts for publication: Neanderthal scapulae, with special attention to the Shanidar Neanderthals of Iraq; Anterior femoral curvature, its utility for race classification; Comments on the reassessment of the Indian Knoll skeletons; and Physical plasticity and adaptation [in Middle American Indians]. In connection with the first of these studies, Dr. Stewart was fortunate in being able to borrow from the Peabody Museum, Harvard University, the original scapulae of one of the Neanderthals (Skhūl V) from Mount Carmel, Palestine (Israel). As the year closed he was devoting most of his attention to the design of a new exhibit hall of physical anthropology, the first time this subject has been treated so extensively in the National Museum.

As time permitted, Dr. Stewart studied a collection of secondary burials from the McLean site in North Carolina. The collection, consisting of 265 specimens, all incomplete, multiple, and sometimes burned, was made by Lt. Col. Howard MacCord, of Fort Bragg. The importance of the collection is that it presents the first evidence from the area of prehistoric burial practices.

Archeology.—For several weeks in summer of 1961, curator Waldo R. Wedel was engaged in field work near Littleton, Colo., investigat-

An exhibit in the new hall, Cultures of the Pacific and Asia. Traditional activities of the old Maori of New Zealand include, left to right, wood carving, tattooing, and flax beating. Cloaks such as those shown here were made from flax.

ing the possibility of human associations with a late Pleistocene fauna. This project was already underway at the beginning of the fiscal year under the supervision of museum aid George S. Metcalf. Some 350 mammoth, camel, horse, bison, and other still unidentified bones were collected from an ancient spring deposit for return to Washington. No artifacts were found in unquestioned association with the bones of extinct animals, but several flints from higher in



The value of Yap stone money varies with the history, ownership, and past use of the particular piece.

the strata offer strong indication that hunters were in the region between 4,000 and 1,000 years ago. As the fiscal year ended Dr. Wedel and Mr. Metcalf were again in the field at Littleton.

As the year opened associate curator Clifford Evans and honorary research associate Betty Meggers were in Barranquilla, Colombia, serving with Dr. James A. Ford of the American Museum of Natural

History as instructors in a unique working seminar on archeological techniques for young, qualified Latin American archeologists. Attending also were students from Argentina, Brazil, Chile, Guatemala, Mexico, Panama, Peru, Uruguay, and Venezuela. Organized under the sponsorship of the Organization of American States, it was also supported by the National Science Foundation.

During the following 3 months, Drs. Evans and Meggers, in collaboration with Sr. Emilio Estrada, Director of the Museo Arqueologico "Victor Emilio Estrada" in Guayaquil, conducted archeological research along the coast of Ecuador. This year the work was cosponsored by the Institute of Andean Research as Project J of its coordinated research program "Interrelationships of New World cultures." Besides extending the work of previous seasons in the Guayas Basin, the excavators began their first work in the Provinces of Manabí and Esmeraldas, giving special attention to sites that seemed to show cultural relationships with Meso-America. When the recovered artifacts are studied it is expected that they will yield the first reliable dates and other details of a large scale migration between Meso-America and northern South America. Unfortunately, the extremely fruitful collaboration over the past seven years between Drs. Evans and Meggers and Sr. Emilio Estrada ended November 19 with Estrada's untimely death.

The obsidian dating project, under Dr. Evans' guidance, continued actively until May, when research assistant Dr. Donavan Clark resigned to enter private industry. A large amount of time during the year was spent in studying obsidian composition with a view to determining whether it exerted a limiting effect on surface hydration and whether it could be used to identify the sources of archeological specimens. Also, the hydration layers were measured in approximately 500 more specimens. Reports on all this work, as well as on the dating method, are in process.

For more than 3 months between November and February, associate curator Gus W. Van Beek directed an archeological reconnaissance in Wadi Hadhramaut, East Aden Protectorate, Arabia. Other members of the expedition were: Dr. Glen H. Cole, paleoanthropologist of the University of Chicago; Dr. Albert Jamme, epigrapher of the Catholic University of America, Washington, D.C.; and associate curator Henry W. Setzer, mammalogist of this Museum. Records were made of 110 prehistoric sites, some as early as the Upper Paleolithic Period, and of 50 pre-Islamic and Islamic sites. These records, supported by the collections, should make clear that during much of the interval between the Paleolithic Period and the 5th century B.C. the area was occupied, a fact which has not been known heretofore. The collections include more than 1,000 copies of pre-Islamic graffiti and inscriptions, made by Dr. Jamme, and the first good series of mammals from this area, obtained by Dr. Setzer.

During the year museum aide George S. Metcalf received from the Nebraska State Historical Society the stone, bone, and shell artifacts from a group of sites in central Nebraska excavated in 1939. His analysis of this material enabled Mr. Metcalf to continue work on a manuscript describing the archeological aspects of the sites.

Honorary collaborator John M. Campbell was in the Brooks Range of Alaska during the first 2 months of the fiscal year seeking archeological evidence from which to reconstruct the movements of aboriginal man in the peopling of the continent. Subsequently he made progress on a manuscript dealing with his Alaskan work, "The archeology of Anaktuvuk Pass: Nunamiut prehistory."

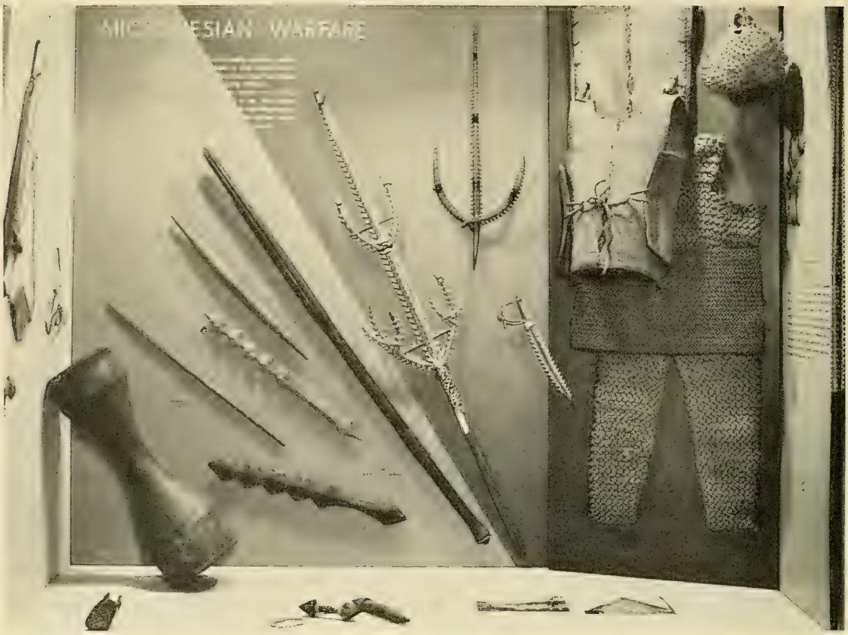
Honorary research associate Neil M. Judd worked throughout the year on part 3 of his archeological report, based on the field work in Chaco Canyon, New Mexico, done earlier for the National Geographic Society.

Ethnology.—Curator Saul H. Riesenberg, who otherwise was largely occupied with exhibit responsibilities, late in the summer attended the Tenth Pacific Science Congress, in Honolulu, where he convened a symposium on ethnohistory in the Pacific.

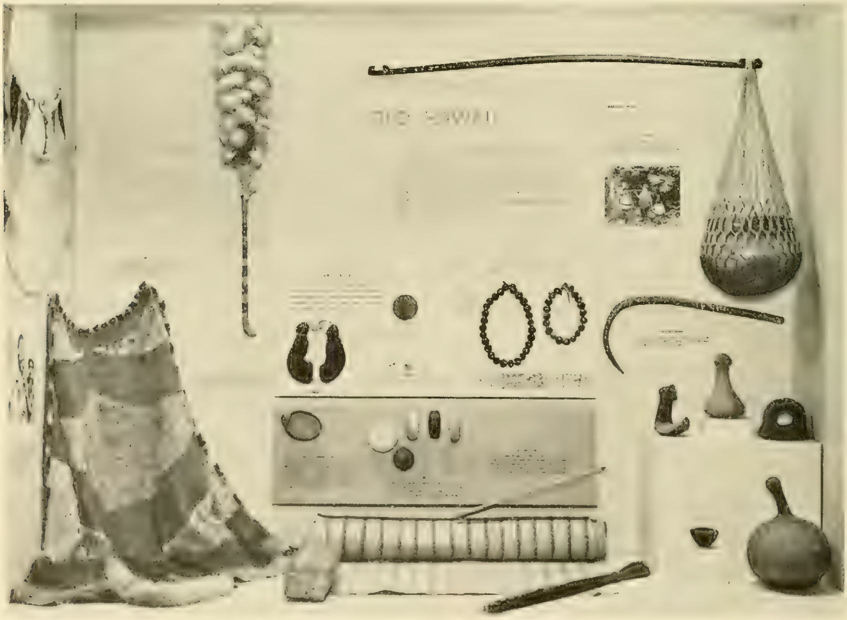
After an absence of a year on an expedition principally to southwest Africa and Bechuanaland, associate curator Gordon D. Gibson returned to the Museum in July. Mainly he had been investigating features of the economic life of the Herero and Himba, pastoral Bantu tribes. The collections obtained from these tribes are unique so far as the Himba are concerned and are among the best for the Herero. On his return trip Dr. Gibson made stops in Southern Rhodesia, Northern Rhodesia, Kenya, Ethiopia, and Egypt to make collections and to investigate the possibilities of acquiring specimens for the new African exhibits. After his return he continued his research on the Southwestern Bantu, and prepared articles on the Herero and Bergdama for publication in an encyclopaedia.

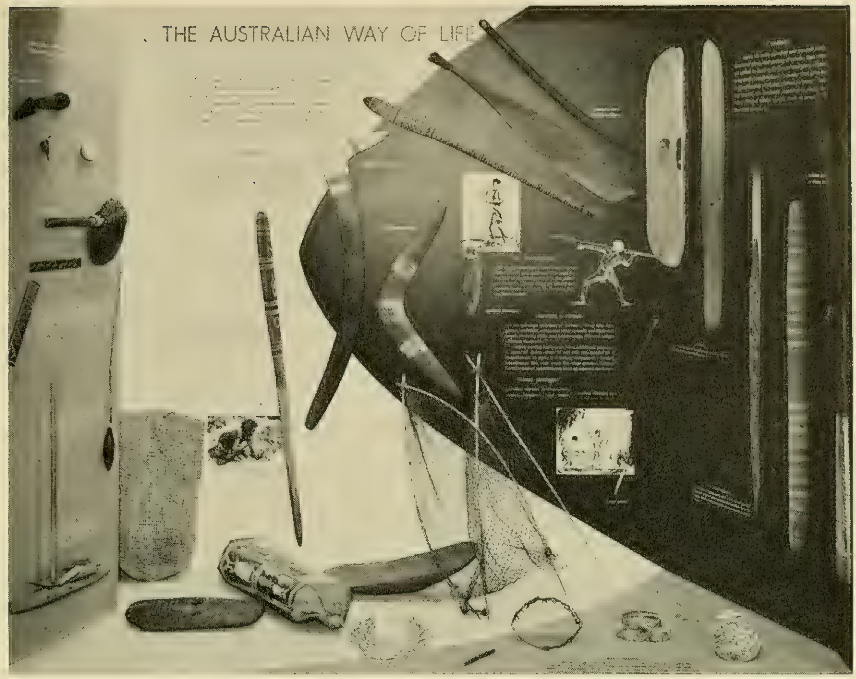
When not directly engaged in exhibit work, associate curator Eugene I. Knez spent much time throughout the year gathering ethnological materials for exhibit and research use from Pakistan, India, Burma, Cambodia, Malaya, Taiwan, Korea, and Japan. In addition Dr. Knez continued his research on Korean village technology.

Associate curator William H. Crocker, who joined the staff in February, devoted time to the records of his previous field work. Before coming to the Museum he had spent about 2 years among the Canela, an isolated Indian tribe in eastern Brazil.

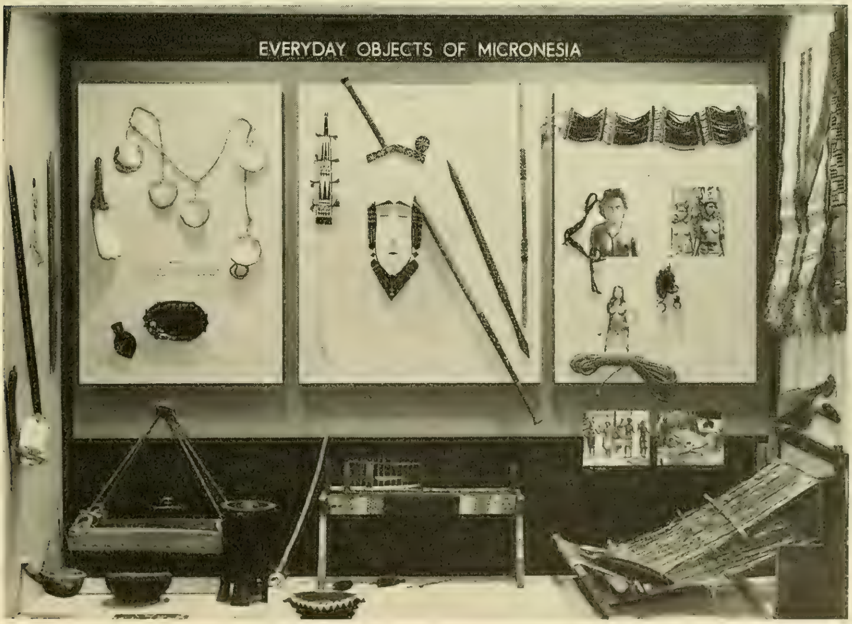


Sharks teeth arm weapons used in the Gilbert Islands. The armor is made from cocoanut husk, the helmet, upper right, from porcupine-fish skin. Ancient objects, below, from our 50th State, Hawaii, include feather capes worn by royalty.

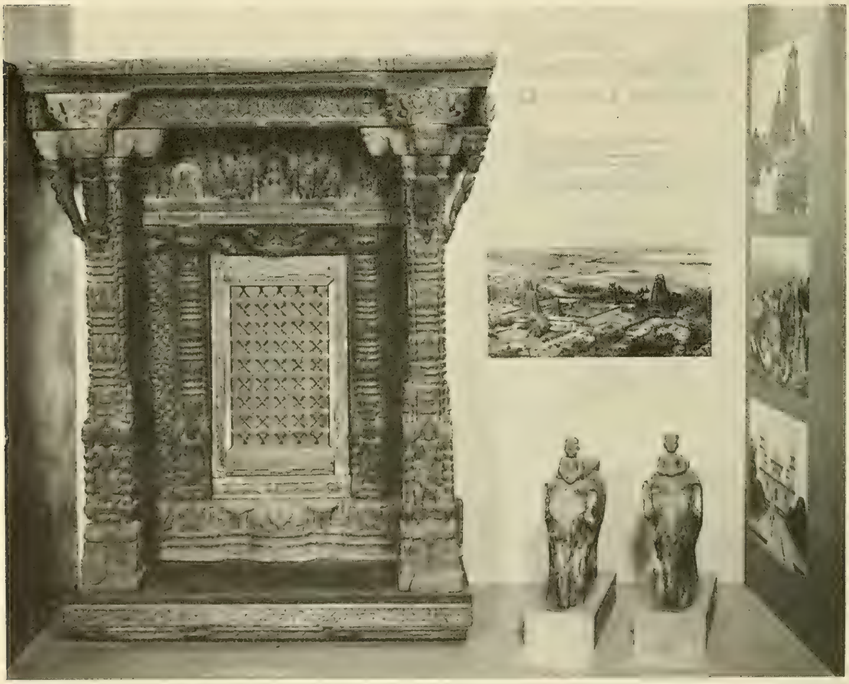



THE AUSTRALIAN WAY OF LIFE

Weapons and tools used by the nomadic aboriginal Australians. Below: Most of the objects shown in this exhibit are still used in the Marshalls, Carolines, and other islands of Micronesia.


EVERYDAY OBJECTS OF MICRONESIA

The Hindu god Shiva and his consort Parvati, a modern sculpture in the traditional manner, and below, Hindu temple window, probably late 18th century, both from south India, gift of the Indian Government.



In its objects and activities the Sindhi kitchen repeats a centuries-old pattern.

Physical anthropology.—During July and August, associate curator Marshall T. Newman was in Peru carrying out the final phase of a 5-year integrated physical-nutritional study on the Quechua Indians of Vicos, an hacienda in the North Peruvian Sierra. Honorary collaborator William J. Tobin, Washington orthopedic surgeon, accompanied Dr. Newman and made orthopedic examinations of the Vicos school boys. Local cooperation came from Dr. Carlos Collazos Ch., director of Peru's Institute of Nutrition, who made clinical nutritional studies on the boys and whose staff studied the food intake of families and the serum vitamin levels of the boys. In addition, collections of saliva and blood were brought back to the States for analysis. After four years of special feeding, the Vicos boys show a mean 42 percent increase in weight increments that represent muscle and bone increase rather than body fat. At all ages they show significantly higher bone densities in comparison with the 1956 averages.

Dr. Newman, assisted by Dr. Francisco M. Salzano, of the Institute of Natural Sciences, Porto Alegre, Brazil, compiled the annual annotated bibliography on physical anthropology in Latin America for the Handbook of Latin American Studies, published by the Library of Congress. For the Smithsonian's information leaflet series he pre-

ARMS AND ARMOR
OF INDIA AND PAKISTAN

Objects from the John Oliver La Gorce collection are included in this display of weapons from the Mogul period.

pared an illustrated account of "Early man: the story of human ancestry." This subject is one of those most frequently requested by students.

Anthropological aide Lucile E. Hoyme spent about three months early in the year revising and expanding a manuscript on "Human skeletal remains from the Tollifero (Ha6) and Clarksville (Mc14) sites, John H. Kerr Reservoir Basin, Virginia." In the course of this work she reexamined about 80 cataloged skeletons and the records of 45 others that had been discarded. Also, she X-rayed various pathological bones from 21 skeletons in order to obtain a more accurate diagnosis of the diseases present.

Research by visiting investigators.—The collections and other resources of the department of anthropology were used in furthering their research by the following visitors, among others:

MUSIC OF THAILAND

Gong chime is one of the important instruments of a Thailand percussion ensemble.

Archeology: Frank Boos, Detroit, Mich.; Edward Danson, Museum of Northern Arizona; Gary Vescelius, Cornell University; Mahmud el-Amin, University of Baghdad; Carlos Angulo, Instituto Colombiano de Antropología; Ignacio Bernal, Instituto Nacional de Antropología e Hisoria; Ripley Bullen, Florida State Museum; Katherine Capes, Royal Ontario Museum; Carl Chapman, University of Missouri; Ray L. Cleveland, Oriental Seminary of Johns Hopkins University; Eusebio Dávalos Hurtado, Instituto Nacional de Antropología e Historia; Robert Heine-Geldern, Institut für Volkerkunde; C. G. Holland, University of Virginia; Alister Hughes and Marion Priest, St. Georges, Grenada; Alex Krieger, University of Washington; Jorge Lines, University of Costa Rica; Richard MacNeish, National Museum of Canada; Shozo Masuda, University of Tokyo; Alfred Metraux, UNESCO; Wendell Phillips, Hawaii; Faisal Seirafi, Department of Antiquities and Museums in North Syria; Carlyle Smith, University of Kansas; Nathalie F. Woodbury, Arizona State Museum.

Ethnology: Doo Hyun Lee, Seoul National Museum, Korea; Chi-Lu Huang, Chinese Minister of Education, Formosa; Nai-Wei Chang, Bureau for International Cultural Relations, Formosa; Jung Whan Kim, Seoul, Korea; Ethel Jane Bunting, Karachi, Pakistan; Saviteri Ahuja, Washington, D.C.; Swami Nityaswarupananda, The Rama Krishna Mission Institute of Culture, Calcutta, India; Wayne Suttles, University of British Columbia, Vancouver; Carl Schmitz, Basle Museum, Switzerland; Robert Textor, Harvard University; Harold Conklin, Columbia University; John Cool, Washington, D.C.; E. B. Sayles, Arizona State Museum; Paul H. Ezell, San Diego State College; Viola Garfield, University of Washington; Peter Goethals, University of Virginia; Cvetko Rihtman, Muzicka Akademija, Sarajevo, Yugoslavia; Klaus P. Wachsmann, Wellcome Historical Medical Museum, London, England; William R. Bascom, Robert H. Lowie Museum of Anthropology.

Physical Anthropology: A. A. Abbie, University of Adelaide, Australia; J. Lawrence Angel, Daniel Baugh Institute of Anatomy; Paul Baker, Pennsylvania State University; William M. Bass, University of Kansas; Dr. and Mrs. Ripley Bullen, Florida State Museum; Drexel Cochran, USAF, ADTIC, Montgomery, Alabama; E. F. Cumerma, Baltimore, Md.; Paul Dastian, University of Maryland; M. S. Goldstein, National Institute of Mental Health, Bethesda, Md.; Janet Hartle, Howard University; H. T. E. Hertzberg, Aero-Space Medical Research Laboratories, Wright-Patterson AFB, Ohio; Ellis R. Kerley, Washington, D.C.; Frank Kiel, Armed Forces Institute of Pathology; W. M. Krogman, Philadelphia Center for Research in Child Growth; William S. Laughlin, University of Wisconsin; Elliot Liebow, Washington, D.C.; G. A. Matson, Minneapolis War Memorial Blood Bank; Hasmukh J. Mehta, New York Medical College; Juan R. Munizaga, University of Chile; Karin Nelson, National Institute of Mental Health; Russell W. Newman, ARIEM–QM R and E Center, Natick, Mass.; Lawrence Oschinsky, National Museum of Canada; D. F. Roberts, Laboratory of Physical Anthropology, Oxford, England; William L. Straus, Jr., Johns Hopkins Medical School; Norman Walensky, George Washington University Medical School; Cyril H. Wecht, Baltimore, Md.

Zoology

On February 1 Dr. Horton H. Hobbs, Jr., assumed the position of head curator. Since he came to the Museum, three publications dealing with crayfishes and their epizootic ostracods have appeared, and two short manuscripts have been submitted for publication. He is presently engaged in the preparation of a check-list of North American crayfishes.

Mammals.—Curator David H. Johnson continued to work on mammals from southeastern Asia and the Pacific Ocean areas. In March he was able to study special groups of Asiatic mammals in the Chicago Natural History Museum and the American Museum of Natural History. In December, he took part in a symposium of the Society of Systematic Zoology on the biogeography of the Philippine Islands, and he also completed a report on a collection of mammals from Nepal.

Associate curator Henry W. Setzer continued his study of mammals from Egypt and the Sudan obtained by U.S. Naval Medical Research Unit No. 3 under the direction of Dr. Harry Hoogstraal. Most of Dr. Setzer's time was devoted to organizing and conducting fieldwork in Africa and the Middle East as part of a program supported by the Army Research and Development Command, Office of the Surgeon General. In October, accompanied by research assistant Gary L. Ranck, he initiated a project of collecting in Libya. In November and December, collections were made in Tripolitania and around Tarim and Taribih in Kathiri State. In late December Dr. Setzer returned to Washington; however, Mr. Ranck continued to collect in Libya, principally in Fezzan Province. Preparation for a similar project in the Malagasy Republic, under the same sponsorship, is now in progress.

Associate curator Charles O. Handley, Jr., concentrated on two continuing research projects, one on the mammals of Panama and the other on the mammals of the southeastern United States. He also identified a large collection of Venezuelan mammals for the Universidad Central de Venezuela. In November he studied specimens of the rare pigmy sperm whale *Kogia* in six different research centers in North Carolina and South Carolina, Georgia, and Florida. Fieldwork by Dr. Handley in the southeastern states included two weeks with exhibits specialist Daniel I. Rhymer as assistant in the Clinch Mountain area of southwestern Virginia and a week in cooperation with Edwin V. Komarek in western Florida. Early in 1962 Dr. Handley, assisted by exhibits specialist Francis M. Greenwell, devoted thirteen weeks to collecting mammals in the highest elevations on the Azuero Peninsula, the highest parts of the Cerro Punta-Boquete Trail in Chiriquí Province, and a group of small islands, including Escudo de Veraguas, off the northwestern coast of Panama.

Birds.—Curator Herbert G. Deignan participated in a symposium, "Biogeography of the Tropical Pacific," at the Tenth Pacific Science Congress in Honolulu. For the virological and parasitological reports he supplied identifications of the birds obtained by the U.S. Naval Medical Research Unit No. 2 in Formosa. The typescript for the subfamilies Timaliinae, Paradoxornithinae, and Orthonychinae to appear in Peters' "Check-list of birds of the world" was brought up to date and will soon go to press. His "Check-list of the birds of Thailand," which will appear in a Bulletin of the United States National Museum, is in page proof.

Dr. Alexander Wetmore, honorary research associate and former Secretary of the Smithsonian, continued his field studies in Panama from January to April, and has spent several days studying Panamanian birds in the Museum of Comparative Zoology and the American Museum of Natural History. He has completed three manuscripts dealing with modern tropical American birds and with fossil species, mainly of Pleistocene age.

Bernard R. Feinstein, museum aide collecting with an expedition jointly conducted by the Bernice P. Bishop Museum of Honolulu and the Medical Research and Development Command, Department of the Army, added a large number of specimens to the national collections.

Several staff changes took place during the year. Mr. Deignan resigned on January 31, 1962. He is continuing his association with the Museum as a member of an expedition to Madagascar. Dr. Philip S. Humphrey was appointed curator of birds June 1, 1962, and Dr. Oliver L. Austin, who has succeeded the late Wendell Taber as chairman of the Bent Life Histories Committee, was appointed honorary research associate of the Smithsonian Institution, as was Mr. Deignan.

Reptiles and Amphibians.—Curator Doris M. Cochran has continued her studies on the frogs of Colombia, and her manuscript is nearing completion. Her beautifully illustrated book on the living amphibians of the world was published in June 1961.

Fishes.—Curator Leonard P. Schultz published a "Revision of the marine silver hatchetfishes (family Sternoptychidae)" in the Proceedings of the U.S. National Museum. An article by Schultz, Gilbert, and Springer, with the title, "Shark attacks: worldwide records through 1960 show when and where predaceous sharks are likely to attack man," appeared in "Science." Four additional manuscripts have been completed: "The silver hatchetfishes, family Sternoptychidae, of the Western Atlantic"; "Attacks by sharks as related to the activities of man"; with J. A. F. Garrick, "A guide to the kinds of dangerous sharks of the world"; and with Marilyn Malin, "Documented list of shark attacks for the world." Research in progress includes further studies on sharks and a new frogfish, family Antennariidae.

In connection with a research program directed by Dr. Schultz, his associate J. A. F. Garrick has about half completed a revision of the carcharhinid sharks of the Indo-Pacific, his associate Victor G. Springer expects to complete his revision of the sharks related to the genus *Scoliodon*, and his associate Carter R. Gilbert is completing his revision of the hammerhead sharks, genus *Sphyrna*. These revisions represent the first attempt to study the relationships of the sharks in the Indian, Pacific, and Atlantic Oceans. Mrs. Marilyn Malin, research secretary, has aided in the preparation of the documented file of shark attacks of the world. This file now contains 1,032 cases.

Associate curator Ernest A. Lachner has completed the family Echeneidae for "Fishes of the Marshall and Marianas Islands," and is continuing work toward the nearly completed revisions of the families Gobiidae, Eleotridae, and Taenioididae. Other research projects under way are revisions of the families Echeneidae, Apogonidae, and Mullidae.

Associate curator William R. Taylor is completing his large monograph, "A revision of the North American catfishes, genus *Noturus*, with an analysis of the higher groups in the family Ictaluridae," which is well advanced, except for the addition of new species discovered in recent years. Also, under way is a paper on "The marine catfishes of the Western North Atlantic."

Insects.—Curator J. F. Gates Clarke, after attending the Tenth Pacific Science Congress, proceeded to Tahiti in September. The objective of his expedition was the island of Rapa which, because of adverse circumstances, was not reached. On Tahiti and Huahine a small collection of insects and other arthropods was obtained. In the material acquired were about 40 species of Microlepidoptera, most of which are undescribed and not previously represented in the national collection.

Publication of Dr. Clarke's series on the Meyrick types of Microlepidoptera has been delayed, although last year galley proof was corrected for vol. 4. All but about 30 plates and corresponding text of vol. 5 are now complete, but the photos for the remaining plates are still needed. Progress on the Neotropical Microlepidoptera project has been moderate. Two small papers were completed and have been published, and a third is nearing completion.

Associate curator Oscar L. Cartwright has continued his study of the genus *Ataenius* (Scarabaeidae) of the Western Hemisphere. Concurrently, a study of the Scarabaeidae of Micronesia is being conducted.

Associate curator Ralph E. Crabill, Jr., continued his work on chilopods in European museums from June through mid-September. Collections in London, Hamburg, and Munich were studied. Dr. Crabill's investigations, usually involving poorly known types, proved most fruitful in the resolution of many long-standing problems in systematics. This visit to European museums also provided the opportunity to become acquainted with many species and genera not represented in American museums. Most of February was spent in the Museum of Comparative Zoology, Harvard University, for the purpose of continuing studies on important holdings of Chilopoda.

Associate curator Donald R. Davis, a new staff member and a specialist in Microlepidoptera, has completed additions and changes to his exhaustive study of the Psychidae (bag-worms), the subject of his doctoral dissertation, and the revision is now ready for publication. Dr. Davis is also engaged in a study of the Gracilariidae of the Nearctic Region. This group constitutes the principal family of leaf-mining Lepidoptera, containing as many species with this specialized habit of feeding as all other Lepidoptera combined. It is estimated that there are no less than 240 species, contained in 18 genera, in North America north of Mexico. Eventually this study will be extended to include the fauna of the Neotropical Region and correlated with similar work being done in Japan and South Africa; thus a more comprehensive understanding of the systematics and evolution of this interesting family will be obtained.

Associate curator William D. Field is continuing his long term study of the Lycaenidae and is also working on the genus *Ceramidia*, a group of moths destructive to bananas. He completed his study of the moths of the genus *Rhabdatomis* (Lithosiinae), and in June conducted field investigations in Maine.

Associate curator Oliver S. Flint, Jr., has continued his investigation of the immature forms of Trichoptera (caddis flies) and several papers on the subject have resulted. The immature forms are being associated with adults, and a classification, based on the different stages, is gradually being developed. In connection with his research, Dr. Flint made many local field trips, collected in Puerto Rico, and studied type specimens at the Museum of Comparative Zoology.

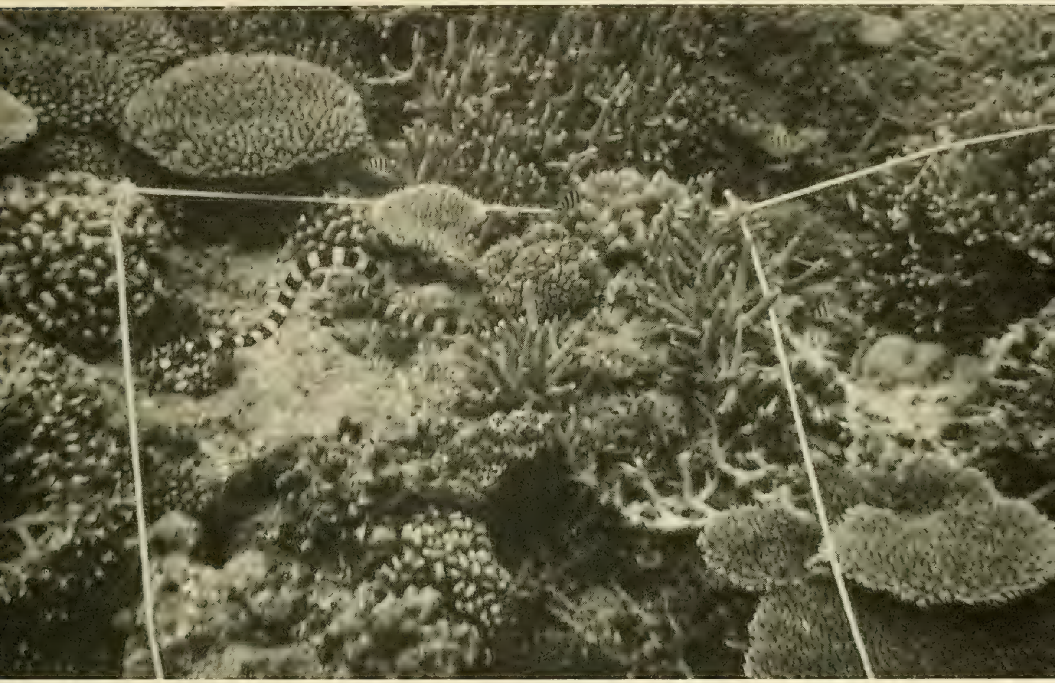
Dr. Alexey Diakonoff, Rijksmuseum van Naturlijke Historie, Leiden, Holland, is studying Philippine and Asiatic Microlepidoptera in the national collection. This study has, for the first time, revealed something in the composition of the Philippine fauna, from which area the only collection of Microlepidoptera is that belonging to the U.S. National Museum, a condition that indicates how little is known of the islands. Included in this study will be the several hundred specimens collected in Okinawa by Colonel S. S. Nicolay, USMC, the only collection known from that island.

Dr. Karlis A. Princis, Zoological Institute, University of Lund, Sweden, continued his studies in the Museum collections of Blattoidea (cockroaches) from Japan through the Philippine Islands. He expects to complete this project during the coming year.

Marine Invertebrates.—Curator Fenner A. Chace, Jr., completed a study of the nonbrachyuran decapod crustaceans of Clipperton Island, including a tentative zoogeographical analysis of a portion of the fauna of that isolated coral island. He also made some progress on a redescription, begun by the late Belle A. Stevens, of the rare bathypelagic shrimp *Notostomus japonicus*. In addition, Dr. Chace devoted considerable time to editing translations of two important Russian works: O. Paulson's "Studies on Crustacea of the Red Sea" and V.

V. Makarov's volume on the Anomura in the "The fauna of the U.S.S.R."

Associate curator Thomas E. Bowman finished the preparation of two manuscripts dealing with the description of a new harpacticoid copepod crustacean from Florida and a review of the Chesapeake Bay species of the copepod genus *Acartia*. He also advanced three other projects: A study of the distribution, and causes thereof, of the calanoid copepods found off the southeastern coast of the United States; a review, with Juan G. Gonzalez, of the little-known inshore planktonic copepods of southwestern Puerto Rico; and the description of a new cave isopod crustacean from eastern Cuba.



Guide ropes mark 3-foot segments of coral reef being collected off New Caledonia for new hall of oceanic life. After a 10- by 24-foot portion, weighing in all about 5 tons, had been photographed, it was chopped off and transported 15 miles back to land, where the pieces were cleaned, dried, and packed. The sea snake seen swimming in center of picture is poisonous.

Associate curator Charles E. Cutress, Jr., worked on his reports on the sea anemones of Port Phillips Bay, Australia, and on the sea anemones collected by the Chatham Islands Expedition of 1954.

Associate curator Frederick M. Bayer resigned December 12, 1961, to join the staff of the Institute of Marine Science, University of Miami.

Associate curator Donald F. Squires, who joined the staff in December, completed two studies: one concerns a scleractinian coral faunule from Cape Rodney, New Zealand, which revealed the remains of Tertiary corals similar to Recent deep-water species but associated with shallow-water organisms; the other describes the sequence of corals at the mouth of the Rewa River, Viti Levu, Fiji. Dr. Squires has also nearly finished two other manuscripts on fossil and living rhizangiid corals from Argentina and on the Scleractinia collected by the Chatham Islands Expedition of 1954, and has made considerable progress on a monographic study of the evolution and systematics of extant and Tertiary scleractinian corals of the family Micrabaciidae.

Dr. Waldo L. Schmitt, honorary research associate, corrected proof on the revised Crustacea and Lobster sections of the Encyclopaedia Britannica; he did considerable preliminary work on a proposed revision of the section on Crustaceans in the "Smithsonian scientific series," and undertook a monographic revision of the American commensal crabs of the family Pinnotheridae.

Mrs. Mildred S. Wilson, honorary research associate, completed another manuscript in the series on North American harpacticoid copepod crustaceans, and has nearly finished one on the occurrence of a glacial marine relict species of calanoid copepod in a Rocky Mountain lake, far out of its previously known range. The latter is one of several manuscripts in preparation on records of brackish-water and marine genera of calanoids in landlocked bodies of water. These studies represent an extension of continuing research on a monograph of the freshwater calanoid copepods.

John C. Yaldwyn, now curator of Crustacea at the Australian Museum in Sydney, worked on the pasiphaeid shrimps in the national collections during a temporary appointment under the program to promote knowledge of the marine fauna of the Central Pacific. Under that same program Mrs. Beatrice L. Burch devoted the entire year to negotiations with specialists in all parts of the world regarding the identification of our unidentified backlog of Pacific material and to preparing such material for shipment. She also engaged in preliminary studies for a revision of the galatheid decapod crustaceans of the Pacific.

The program to increase our knowledge of the marine fauna of the central Pacific region, aided by contracts with the Office of Naval Research and the Atomic Energy Commission, has placed an even greater burden than usual on collaborating specialists throughout the world, whose assistance the Museum acknowledges with gratitude. This year, 43 shipments containing more than 59,869 specimens have been sent to the following 28 specialists:

J. Laurens Barnard: amphipod crustaceans.
Brian P. Boden: euphausiid crustaceans.
E. L. Bousfield: amphipod crustaceans.
E. Yale Dawson: algae.
Ralph W. Dexter: fairy shrimps.
Bonnie Eldred: shrimps.
John S. Garth: crabs.
Robert Given: cumacean crustaceans.
Janet Haig: porcellanid crabs.
Willard D. Hartman: sponges.
Joel W. Hedgpeth: sea spiders.
Dora P. Henry: barnacles.
L. B. Holthuis: decapod crustaceans.
Alan G. Lewis: copepod crustaceans.
Raymond B. Manning: mantis shrimps.
Frank J. Maturo: bryozoans.
Marvin C. Myer: leeches.
Eric Mills: amphipod crustaceans.
J. Percy Moore: leeches.
Marian H. Pettibone: polychaete worms.
Tune Sakai: crabs.
George A. Schultz: isopod crustaceans.
Harrison R. Steeves, III: isopod crustaceans.
A. C. Stephen: sipunculid and echiurid worms.
W. Stephenson: crabs.
Lowell P. Thomas: brittle stars.
W. Vervoort: hydroids.
Fred C. Ziesenhenne: echinoderms.

Mollusks.—Curator Harald A. Rehder devoted considerable study to the marine mollusks of the Indo-Pacific region, particularly the Polynesian area. He spent most of July and August in Honolulu studying the mollusk collections at the Bernice P. Bishop Museum and attending the Tenth Pacific Science Congress. During the year he revised and submitted for publication a paper on the marine mollusks of certain islands off the coast of Venezuela, and made considerable progress on his monograph of the family Harpidae, continuing as well his work on the Indo-Pacific members of the family Tellinidae.

Associate curator Joseph P. E. Morrison initiated a study of the brackish water mollusks of New Caledonia, based largely on material gathered by him in 1960–61. In addition, he continued his work on the families Hydrobiidae, Mactridae (brackish water species), and Ellobiidae.

Associate curator Joseph Rosewater put the final touches on his monograph of the family Pinnidae as represented in the Indo-Pacific area, and this paper was published in September. He also continued his work on the families Tridacnidae and Littorinidae of the Indo-Pacific and spent some ten days at the Bernice P. Bishop Museum studying representatives of these families.

Research by visiting investigators.—Among visiting scientists who studied the zoology research colletcions during the year were:

Mammals: Sydney Anderson, New York, N.Y.; J. Kenneth Doutt, Pittsburgh, Pa.; A. Fain, Antwerp, Belgium; Bryan P. Glass, Stillwater, Okla.; E. Raymond Hall, Lawrence, Kans.; Hans E. Kaiser, New York, N.Y.; Karl F. Koopman, New York, N.Y.; E. V. Komarek, Thomasville, Ga.; Adam Krzanowski, Pulawy, Poland; Kenneth I. Lange, Washington, D.C.; Lim Boo Liat, Kuala Lumpur, Malaya; Eustorgio Mendez, Gorgas Memorial Laboratory, Canal Zone; Joseph C. Moore, Chicago, Ill.; R. E. Mumford, Lafayette, Ind.; M. Nadchatram, Kuala Lumpur, Malaya; Felix Pifano C., Caracas, Venezuela; Robert Rausch, Anchorage, Alaska; Ernst Schwarz, Bethesda, Md.; Robert M. Stecher, Cleveland, Ohio; Howard E. Uible, Washington, D.C.; Gary S. Vescelius, Brena, Lima, Peru; B. J. Wilks, Durham, N.C.; and Phillip M. Youngman Ottawa, Canada.

Birds: M. H. Moynihan, Canal Zone Biological Area, Canal Zone; Pierce Brodkorb, University of Florida; Eugene Eisenmann and James P. Chapin, American Museum of Natural History; Robert C. Stein, Cornell University; L. L. Snyder, Royal Ontario Museum; Ralph S. Palmer, New York State Museum; Kenneth E. Stager, Los Angeles County Museum; Austin L. Rand, Chicago Natural History Museum; David W. Johnston, Wake Forest College; Oliver L. Austin, Jr., Florida State Museum; Arthur Singer, Jericho, L.I., N.Y.; Lawrence H. Walkinshaw, Battle Creek, Mich.; A. W. Schorger, University of Wisconsin; Kenneth C. Parkes, Carnegie Museum; Robert K. Selander, University of Texas; Harrison B. Tordoff, University of Michigan; Richard C. Banks, University of California; and Oscar T. Owre, University of Miami.

Reptiles and amphibians: H. G. Dowling, New York Zoological Society; C. J. Goin, University of Florida; A. E. Leviton, California Academy of Sciences; W. G. Lynn, Catholic University; E. Mendez, Gorgas Memorial Laboratory, Panama; and J. R. Tamsitt, University of the Andes, Bogotá, Colombia.

Fishes: Tokiharu Abe, University of Tokyo, Japan; Shelton P. Applegate, University of Illinois; James E. Böhlke, Academy of Natural Sciences of Philadelphia; William M. Clay, University of Louisville; C. E. Dawson, Gulf Coast Research Laboratory; Donald L. Frizzell, Missouri School of Mines; Alfred W. Ebeling, Yale University; Robert H. Gibbs, Jr., Boston University; William Gosline, University of Hawaii; Carl L. Hubbs and Richard H. Rosenblatt, Scripps Institution of Oceanography; Leslie W. Knapp, Laurence T. Penny, and William J. Richards, Cornell University; Giles W. Mead, Museum of Comparative Zoology, Harvard University; E. B. Middleton, Thomas Savage, and Frank J. Schwartz, University of Maryland; John E. Randall and Helen Randall, University of Puerto Rico; William G. Reeder, University of Wisconsin; John W. Reintjes, U.S. Fish and Wildlife Service Biological Laboratory, Beaufort, N.C.; Tyson Roberts, Stanford University; C. Richard Robins, Marine Laboratory, University of Miami; Donn E. Rosen, American Museum of Natural History; Robert D. Ross, Virginia Polytechnic Institute; F. A. Santos, University of the Philippines; Donald C. Scott, University of Georgia; Gerald R. Smith, University of Michigan; William A. Smoker, Ake Bay Biological Laboratory, Alaska; Otto R. Trantz, New York University; Yoshitaka Tsutsui, Osaka Museum of Natural History, Japan; Capt. Wayne E. Williams, Langley Air Force Base; John Wintersteen, University of California, Los Angeles; and Loren P. Woods, Chicago Natural History Museum.

Insects: Gordon F. Bennett, Ontario Research Foundation, Toronto, Canada; Thomas Borgmeier, Jocarepagua, Brazil; H. Janetschek, University of Innsbruck, Austria; Leonard A. Kelton, H. E. Milliron, and Lois K. Smith, Canada Department of Agriculture, Ottawa; José Liebermann, Instituto Nacional de Tecnología Agropecuaria, Buenos Aires, Argentina; Carl H. Lindroth, Zoological Institute, University of Lund, Sweden; D. C. M. Manson, Department of Agriculture, Levin, New Zealand; O. W. Richards, Imperial College of Science and Technology, University of London, England; H. R. Wong, Forestry Laboratory, Winnipeg, Canada; and T. E. Woodward, University of Queensland, Australia.

Marine invertebrates: Frederick M. Bayer, Marine Laboratory, University of Miami; Patricia R. Bergquist, University of Aukland, New Zealand; H. Boschma, Rijksmuseum van Natuurlijke Historie, Leiden, Netherlands; Carl M. Boyd, Scripps Institution of Oceanography; Elisabeth Deichmann and Isabel

Perez Farfante, Museum of Comparative Zoology, Harvard University; Frank Fabricius, Princeton University; George D. Grice, Jr., and Makoto Omori, Woods Hole Oceanographic Institution; Gordon Gunter, Gulf Coast Research Laboratory; Dieter Hantschmann and Charlotte P. Mangum, Yale University; Walter J. Harman, Louisiana State University; R. Harrison, and J. T. Penney, University of South Carolina; C. W. Hart, Jr., Academy of Natural Sciences of Philadelphia; Brian A. Hazlett, University of Maryland; Paul L. Illg, University of Washington; Hugo A. James, University of Bridgeport; Charles F. Lytle, Tulane University; Max R. Matteson, University of Illinois; Francisco Namenzo, University of the Philippines; Marian H. Pettibone, University of New Hampshire; Arnold Ross, U.S. Army; Phillip Sandberg, Louisiana State University; R. Serene, Djakarta, Indonesia; John R. Thompson, U.S. Fish and Wildlife Service; and Austin B. Williams, Institute of Fisheries Research, University of North Carolina.

Mollusks: R. Tucker Abbott and Virginia Orr, Academy of Natural Sciences of Philadelphia; Kenneth J. Boss and Ruth D. Turner, Museum of Comparative Zoology, Harvard University; Mr. and Mrs. Crawford N. Cate, Los Angeles, Calif.; Willis G. Hewatt, Texas Christian University; Bengt Hubendick, Naturhistoriska Museet, Goteborg, Sweden; James H. McLean, Stanford University; Donald F. McMichael, Australian Museum, Sydney; William E. Old, Jr., American Museum of Natural History; A. W. B. Powell, Auckland Institute and Museum, Auckland; Dr. and Mrs. Francis A. Smith, St. Petersburg, Fla.; Gilbert L. Voss, Marine Laboratory, University of Miami; Mrs. Germaine L. Warmke, Institute of Marine Biology, University of Puerto Rico; and Norman E. Weisbord, Florida State University.

Botany

Phanerogams.—Curator Lyman B. Smith continued his studies in the Bromeliaceae and in the flora of southern Brazil.

Associate curator E. C. Leonard retired in January 1962, and was appointed honorary research associate. He continued the preparation of a Flora of Hispaniola and treatments of the Acanthaceae.

Associate curator Velva E. Rudd completed a revision of the genus *Dussia* as a necessary step in finishing studies of *Ormosia*. In this connection she visited Trinidad, Venezuela, and Panama, for special collecting and study in the principal herbaria. Dr. Rudd continued preparation of a floristic treatment of the papilionoid legumes of Mexico, and at the same time began to assemble data for a paper on the Leguminosae of the Yucatán Peninsula.

Associate curator Richard S. Cowan has concentrated his research efforts on a monograph of *Swartzia* in the hope of completion this year; illustrations have been prepared for 29 taxa of the genus. Incidental to his work on exhibits, Dr. Cowan made a large collection of flowering plants in British Guiana.

Associate curator John J. Wurdack completed several papers on the Melastomataceae, notably one on Guayana Highland collections describing 48 new taxa. In April he left for 8 months of botanical exploration in northern Peru, an area rich in local endemics often known from sparsely collected materials.

Dr. José Cuatrecasas, research associate, continued the preparation of a revision of Colombian Compositae of approximately 800 species. As part of this work, he collected some 2,500 specimens in Trinidad, Venezuela, Colombia, and Costa Rica.

Dr. Kittie F. Parker, honorary research associate, furthered her studies of western and Mexican Compositae.

Grasses.—Head curator Jason R. Swallen continued his studies of the grasses of southern Brazil. One short paper was published describing a new species of *Panicum*, and a review of the book "The grass cover of Africa" was prepared on request.

Associate curator Thomas R. Soderstrom took part in two field trips within the past year, spending 2 months in the autumn collecting in southwestern Mexico, and later accompanying the botany exhibits expedition to British Guiana, where he made collections in the Kaieteur Plateau region. He completed a paper for publication on the taxonomic significance of isocitric acid in species of Crassulaceae and other families. Recently he began a revision of the genus *Lasiacis.*

Mrs. Agnes Chase, honorary research associate, continued her work on the catalogs of grass genera and species. The species index was completed and will be published during the coming year.

Dr. F. A. McClure, honorary research associate, continued his studies on the redefinition of the genera of the Bambusoideae, with major attention given to the integration of type material, photographs, and supporting specimens of bamboos belonging to genera of the Western Hemisphere. A semifinal draft of a manuscript dealing with the 12 known genera of the Western Hemisphere was completed. Specimens and information elucidating other genera are being derived from living plants of 35 species, representing 13 genera, now under local cultivation. Five species, four of them types of genera, were in flower (two in fruit) in May of this year.

Ferns.—Curator Conrad V. Morton finished a paper on some of the West Indian species of the large genus *Thelypteris* and also wrote an article giving his views on the subgeneric and sectional classification of this genus. He continued with the study of the 8,000 photographs of fern types that were taken in Europe in 1954, and began writing a series of observations on them. A new treatment of the genus *Smilax* (Liliaceae) in Mexico was completed and submitted for publication. An account of the small genus *Trichantha* (Gesneriaceae) was completed. Eight of the 12 species included in the genus were found to be undescribed. During December and January he studied types of South American species of *Solanum* (Solanaceae) in the herbaria in Paris, Geneva, Munich, and London, and took about 750 photographs of types and other interesting specimens.

Cryptogams.—Curator Mason E. Hale, Jr., continued work on a monographic revision of the genus *Parmelia.* Considerable progress was made with the help of a research assistant, Dr. Syo Kurokawa, who joined Dr. Hale in May 1961. Large collections received from Africa during the year have been chemically tested and identified and several hundred remaining type specimens were borrowed and studied. A study of the family Graphidaceae in Mexico in collaboration with Michael Wirth, a former research assistant, was completed and a manuscript prepared. Trips to study herbarium material and arrange loans were made to Duke University, Harvard University, and 12 major herbaria and museums in Europe.

Associate curator Paul S. Conger continued examination of materials from the British-Australian-New Zealand Antarctic Expedition and from Chincoteague Bay, with the expectation of preparing reports on these. A large collection of freshwater and brackish diatoms from Singapore was examined. Monographic studies of *Grammatophora* were also carried forward.

Assistant curator Robert R. Ireland took leave of absence during the summer to study at the University of Michigan Biological Station. While there, he collected extensively, and before leaving the Smithsonian staff in December in order to resume graduate studies, he was able to curate and identify most of his specimens.

Woods.—Curator William L. Stern during the summer of 1961 made collections of wood specimens with associated herbarium voucher specimens in the Hawaiian Islands, largely on the island of Kauai. He also collected specimens in the Cascade Mountains and Coast Ranges of Oregon, and in the Rocky Mountains of Colorado. Studies conducted in collaboration with Dr. A. C. Smith, Director of the Museum of Natural History, leading to the generic placement of two sterile type specimens of Fijian plants, were completed. The study points up the potential of anatomical studies in establishing plant relationships, and the inadvisability of describing new species from sterile specimens, a custom fortunately out of favor. Dr. Stern has recently completed an investigation of the wood structure of the genus *Capparis* in conjunction with his studies of the woods and flora of the Florida Keys. With Dr. Eyde he has initiated a study of the petrified forests of the Tonosí-Santiago basin in Panama.

Dr. Richard H. Eyde, research assistant, is continuing his studies on the morphology and relationships of the Nyssaceae. Edward S. Ayensu, research assistant, and a graduate student at George Washington University, has commenced an investigation of the stem structure of woody Passifloraceae.

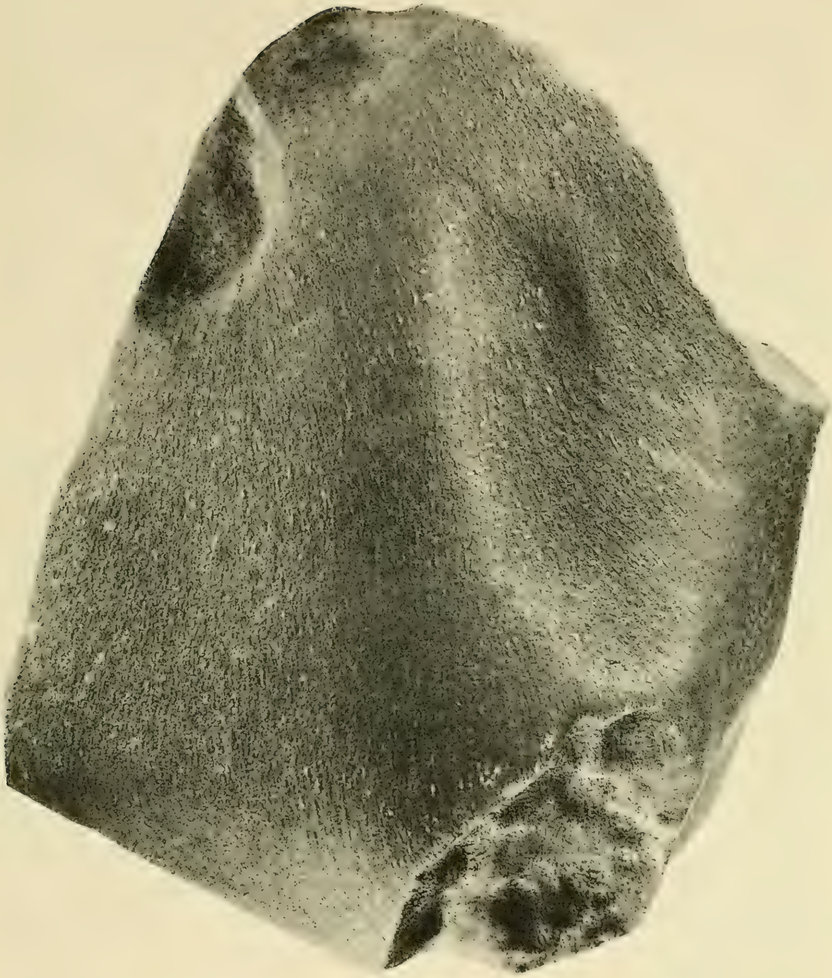
Research by visiting investigators.—Dr. Helia Bravo H., Mexico City, came in August to spend about a month studying the cacti of Mexico. Dr. Faustino Miranda, Universidad de México, has been working since September on the trees of Mexico. Robert M. King has been working on his own collections made in Mexico last year. Mrs. E. R. Faithorn continued her work on diatoms with Mr. Conger, and John L. Stone made frequent visits to study the cryptogamic collections. Mrs. Charlotte Reeder, New Haven, Conn., spent several weeks at the herbarium working on problems of Mexican grasses. Dr. Tetsuo Koyama, University of Tokyo, spent some time on the preparation of an account of the grasses of Okinawa.

In addition to the staff members of various Government agencies who used the facilities of the National Herbarium, there were almost 1,400 visitors seeking information on a variety of subjects. Among them were:

M. Acosta-Solís, Quito, Ecuador; Ramón Ferreyra, San Marcos University, Lima, Peru; A. T. Hunziker, University of Córdoba, Argentina; José J. Jiménez, Santiago, Dominican Republic; Eric Hultén, Stockholm, Sweden; N. A. Qazillbach, University of Peshawar, Pakistan; Dr. and Mrs. Teuvo Ahti, University of Helsinki, Finland; Aino Henssen, Freiburg, Germany; Klaus Mosbach, Lund, Sweden; Gerardo Budowski, Turrialba, Costa Rica; Ernst C. Abbe, University of Minnesota; Elso Barghoorn, Edith Scamman, Dr. and Mrs. Rolla M. Tryon, Otto Solbrig, and I. Mackenzie Lamb, Harvard University; Donald W. Engelhardt, Tulsa, Okla.; David J. Rogers, New York Botanical Garden; Aaron J. Sharp, University of Tennessee; Theodore Delevoryas, University of Illinois; Robert T. Clausen, Cornell University; A. Murray Evans, R. R. Stewart, and Rogers McVaugh, University of Michigan; Mrs. M. F. Ashley Giauque, University of California; Richard Hauke, University of Rhode Island; Edgar T. Wherry, University of Pennsylvania; Lincoln Constance, University of California, Berkeley; J. A. Duke, Missouri Botanical Garden; Carl Epling and Henry J. Thompson, University of California, Los Angeles; C. L. Lundell, Texas Research Foundation; Grady L. Webster, Purdue University; Louis O. Williams, Chicago Natural History Museum; Paul Burkholder, Columbia University; George Butterfield, Chicago; Albert Collier, Galveston Marine Laboratory; Eugene Cronin, Chesapeake Biological Station, Solomons, Md.; Henry Curry, Richmond, Va.; W. J. Gilbert, Albion College; Margaret Green, Candler, N.C.; Karen Horne, Fairhope, Ala.; William Hutchinson, Amherst, Mass.; Walter Kenyon, Hamline University; Herbert McCullough, Howard College, Birmingham, Ala.; Paul Redfearn, Southwest Missouri State College, Springfield, Mo.; Fr. Conan Taylor, Fort Wayne, Ind.; J. W. Thomson, University of Wisconsin; Richard Williams, Sapelo Island Laboratory, Ga.

Geology

Mineralogy and petrology.—Curator George S. Switzer completed the annual review of the diamond industry and continued a long-term research project on the sulfate and related minerals. In May he visited Paris, France, examining mineral collections at the



This meteorite landed May 30, 1961, on the property of J. J. Carver, near Harleton, Texas, and its fall was observed by his son. The striations on the surface of the stone, which weighed 18 lbs. 7 ozs., are flight markings due to heating in the atmosphere. The uncontaminated stone was obtained by the Museum in cooperation with a group of interested institutions, and they are now engaged in the study of short-lived radioactive isotopes and other aspects of the meteorite.

School of Mines and Natural History Museum, and arranging for the acquisition of several outstanding specimens by exchange.

Associate curator Paul E. Desautels continued work on a long-term research project on the lead oxychloride minerals from Laurium, Greece, and finished a series of 119 drawings of quartz crystals to illustrate volume 3 of the seventh edition of "Dana's System of Mineralogy," by Clifford Frondel (John Wiley and Sons).

Roy S. Clarke, Jr., chemist, gave increased attention during the year to the problem of meteorite analysis. This is being done as a preliminary step in developing the division's chemical laboratory within the next few years into a leading source of descriptive data on meteorites. The approach being taken is to conduct chemical studies of specific meteorites along with a critical study of available methods. Analytical work on the Clovis, N. Mex., meteorite was completed, and studies of the Harleton, Tex., meteorite were brought near completion. His tektite studies were continued.

Associate curator Edward P. Henderson completed a preliminary study of the distribution of hexahedrites which shows that these meteorites are not scattered at random, but that a large percentage of them are grouped in several specific areas. A comparative study of several stony meteorites from Saudi Arabia is being made to establish whether they are related or unrelated. These specimens, which were found scattered over a large area, were presented by the Arabian American Oil Company. Descriptions of the Clovis, N. Mex., stony meteorite, the seventh largest known, and of the Harleton, Tex., chondrite are being completed. The microhardness of tektites is being measured to see if there are any hardness differences that can be correlated with structure.

Professor Paul Ramdohr, of the University of Heidelberg, while working at the Geophysical Laboratory of Carnegie Institute, prepared and studied an extensive series of polished sections of stony meteorites, largely of Museum specimens. These sections are to be photographed, the date on each recorded in an album with the pictures, and the sections housed with the division's meteorite collection. The sections will be available for study by qualified investigators and any additional data will be added to the albums. In this way these albums should become a valuable reference library on meteorites.

Invertebrate paleontology and paleobotany.—Head curator G. Arthur Cooper continued his researches on the Permian brachiopods of the Glass Mountains in collaboration with Dr. Richard E. Grant, of the U.S. Geological Survey. The specific descriptions of more than 500 species have been finished, and the pages of manuscript prepared total 3,200. It is anticipated that this part of the work will be completed by the end of the year.

Drs. Cooper and Grant made a collecting trip, extending into July 1961, to Texas and New Mexico. The Permian Word formation was sampled at 20 localities in the Glass Mountains. Other localities were visited to extend and supplement the Glass Mountain brachiopod studies.

Curator Richard S. Boardman continued work on the revision of the genera of Paleozoic trepostomatous bryozoans. A manuscript is near completion on the homotrypid genera. He made two collecting trips totaling three months to the Arbuckle Mountains of southern Oklahoma to collect Bryozoa from the Simpson group of lower Middle Ordovician age. The fauna is largely unstudied and has the advantage of starting with the earliest known bryozoans in this country and continuing through a long period of time. This sequence should reveal much evolutionary history and the origins of several genera. The faunas are abundantly represented throughout and will support many detailed population studies. Approximately 700 thin sections have been prepared and sorted generically, but an estimated 3,000 will be needed to complete the study.

Associate curator Richard Cifelli completed a study of the internal structure and morphology of *Ammonia beccarii* (Linné). Dissection and thin-section techniques were used to study internal structures and to describe growth characteristics and variation of this common, although poorly understood species. Two wall structures found in the single species had previously been used as distinguishing superfamily characters in foraminiferal classification. Progress has been made by Dr. Cifelli in investigations of the Foraminifera of the Stockade Beaver shale (Upper Jurassic) from the Western Interior of the United States. Jurassic Foraminifera of the United States are poorly known and descriptions are badly needed.

Dr. Cifelli spent 2½ weeks in April on an oceanographic cruise of the Woods Hole research vessel *Chain* as part of a continuing study of seasonal variation of pelagic Foraminifera. Twenty-four samples, representing every degree of latitude between Woods Hole and the Caribbean, were taken in plankton hauls. The samples included specimens from such waters as the North Atlantic slope, the Gulf Stream, Sargasso Sea, and Achilles Current.

Associate curator Porter M. Kier submitted for publication in December a monograph on the cassiduloid echinoids. In August Dr. Kier completed a study of Paleozoic echinoids of Belgium. The paper places in synonymy many species of the Belgian fauna. Extensive cleaning of the specimens exposed certain features not previously mentioned in the species descriptions.

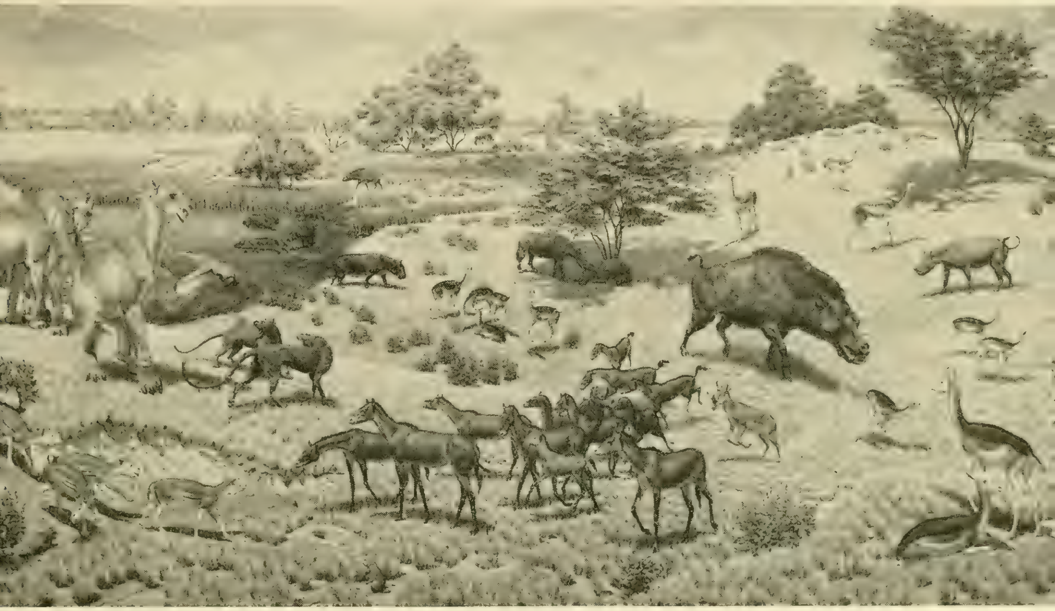
In November and December Dr. Kier made extensive collections of fossil echinoids in Florida, obtaining more than 2,000 specimens from the Tamiami and Caloosahatchee formations. Population studies of the echinoid fauna of the Caloosahatchee limestone and descriptions of new species therein have been undertaken by Dr. Kier. With the aid of the limited aqualung equipment available, Dr. Kier extended his investigations from fossil to living echinoids, initiating a study of the ecology of sea urchins and sand dollars. From this study it is hoped that it will be possible to estimate past environments from fossil echinoids. Very little is known about the ecology and function of many structures of echinoderms.

With associate curator Erle G. Kauffman, Dr. Kier in February collected Mesozoic and Tertiary fossils in Saudi Arabia, on a trip arranged by the Arabian American Oil Company. Three weeks were spent in the little-known central region of Saudi Arabia and large collections of brachiopods, mollusks, and echinoids representing previously undescribed faunas were obtained. The collection of Mesozoic macrofossils is the largest in the world from this area. A stop was made at the Cairo Desert Institute, where collections were examined and possible collecting trips to important Egyptian localities were discussed with staff members of that Institute.

Dr. Kauffman completed several projects in the past year: a study of fossil oysters of the middle and upper Turonian of the gulf coast and western interior; a paper in collaboration with Dr. J. A. Dorr, Jr., dealing with an unusual sedimentary structure, rippled toroids, once thought to be of organic origin; and a description of a late Wisconsin Biota from Huerfano Park, Colo., in collaboration with David McCulloch, of the U.S. Geological Survey. At the present time Dr. Kauffman is making a study of the zonation of the Coloradoan sediments in the western interior on the basis of the pelecypod *Inoceramus*. The study will determine the usefulness of the genus in regional stratigraphic zonation. He is also completing a population study of inoceramid pelecypods from the Fort Hays limestone member of the Niobrara formation.

Dr. Kauffman spent 6 weeks in August collecting from the Upper Cretaceous of the western interior, accompanied by Dr. Norman Sohl, of the U.S. Geological Survey. Such classic localities as the Coalville section were re-collected in detail for further biostratigraphic studies. Drs. Kauffman and Sohl also spent several days collecting at Maryland Cretaceous localities as part of a continuing restudy of the stratigraphy with hopes to establish better biostratigraphic control in the area.

Museum aide Henry B. Roberts published a study of Upper Cretaceous decapod crustaceans of New Jersey and Delaware. He also submitted for publication by the U.S. Geological Survey a manuscript dealing with decapod crustacea from the Marshall Islands. Mr. Roberts has under study a new genus and several new species of fossil crab from the Upper Cretaceous of Nigeria and the southeastern United States. Evaluation of the systematic position of other genera is included in this project. In another study he is reevaluating two fossil crab species. The library research and photographing of specimens has been completed for both studies and preparation of manuscripts is under way.



Mammals of the lower Miocene, a mural in the hall of fossil mammals, as reconstructed by artist Jay H. Matternes on the basis of fossils from the Harrison formation of western Nebraska. Plant life, determined from fossil leaves, seeds, and pollen of the period, includes willow, cottonwood, hackberry, aromatic sumac, cattail and a carpet of short grass of the genus *Aristida*.

Vertebrate paleontology.—Curator C. Lewis Gazin completed his study of the early Eocene mammalian faunas of the Wasatch formation in southwestern Wyoming, involving Knight faunas of the Fossil, Green River, and Washakie Basins and the later Wasatchian faunas of the New Fork and Cathedral Bluffs tongues. Approximately 58 genera and 105 species of fossil mammals were involved, and about 20 percent of these were primates, rounding out his earlier study of the middle and later Eocene members of the order.

The discovery of early Eocene mammals in the Almy formation during the field season this year, demonstrating that the age of these beds in the type area is not Paleocene, resulted in a joint report in which the curator was joined by Dr. Joshua I. Tracey and Dr. Steven S. Oriel, of the U.S. Geological Survey. The report is to be published by the American Association of Petroleum Geologists.

The curator is currently involved in a morphological study of the condylarthran genus *Meniscotherium* and, in connection with this, for comparisons with other Eocene and Paleocene condylarths he visited museums and other institutions in many parts of the United States. From February to May Dr. Gazin made a trip to Central and South America to investigate reported occurrences of Pleistocene Mammalia in Guatemala and Nicaragua and to study early Tertiary mammals, particularly those related to condylarths, in the museums of Buenos Aires, La Plata, and Rio de Janeiro.

Fieldwork by Dr. Gazin, assisted by Franklin L. Pearce, chief of the laboratory of vertebrate paleontology, during the summer of 1961 included visits to the quarrying operations being carried on jointly by this division and the division of archeology, south of Littleton, Colo., where, in addition to artifacts, abundant remains of mammoth were being recovered. The bulk of the curator's field season, however, was devoted to the search for early Tertiary mammals in Colorado, Wyoming, and Montana. Collections were made from a new locality for Paleocene mammals in the western part of the Wind River Basin, as well as from early and late Eocene and early Oligocene localities previously known elsewhere in this basin. New localities were also visited for early Eocene mammals discovered by Henry W. Roehler, of the Mountain Fuel and Supply Company, Rock Springs, Wyo., around the Rock Springs uplift, and for late Paleocene and early Eocene in the Fossil and Green River Basins of Wyoming, stratigraphically important to the current work of the U.S. Geological Survey. Of the localities visited in Montana, only the famous early Oligocene occurrence at Pipestone Springs was productive.

Associate curator Nicholas Hotton III spent from February through July 1961 in South Africa, collecting fossil therapsid reptiles and studying deposition of the Beaufort series sediments in the Karroo, and studying fossil collections at Johannesburg, Capetown, and Bloemfontein. The enthusiastic help and generous sharing of information and knowledge of the country on the part of South African paleontologists were instrumental in the success of this undertaking. He was especially indebted to Dr. A. S. Brink, for general good offices, and to James W. Kitching, for the unstinted effort and special knowledge that he brought to the field work. They are members of the professional staff of the Bernard Price Institute for Palaeontological Research, University of the Witwatersrand, Johannesburg. Dr. Hotton also spent some pleasant and profitable time in the field through the cooperation of Dr. A. W. Crompton, Director of the South African Museum, Capetown.

After returning from South Africa Dr. Hotton proceeded with evaluation of results of the trip and overseeing a beginning of prepararation of specimens. Besides the research potential of the collection itself, the trip provided an insight into problems of Permo-Triassic deposition in the Southern Hemisphere. A preliminary report on this subject was prepared in collaboration with Mr. Kitching for presentation by the latter at a symposium on the Karroo fauna in Capetown, July 1962. Potential of the collection has not yet been fully evaluated; initial results suggest a comprehensive study of cranial morphology of herbivorous therapsids (anomodonts), comparative analysis of the middle ear of all the therapsids, and study of a growth series of the aquatic anomodont *Lystrosaurus*. This work will be tied in where appropriate with continuing study of Beaufort deposition, which it is expected will provide information on paleoecology and adaptive trends of the reptiles.

Research by visiting investigators.—Among those who worked in the geology laboratories or collections during the year were:

Mineralogy and petrology: Paul D. Lowman, Jr., National Aeronautics and Space Administration; Alvin J. Cohen, Mellon Institute; Hans Adler, U.S. Atomic Energy Commission; A. D. Maynes, California Institute of Technology; and E. T. C. Chao and Mary E. Mrose, both of the U.S. Geological Survey.

Invertebrate paleontology: W. M. Furnish, University of Iowa; R. C. Moore, University of Kansas; Norman D. Newell, American Museum of Natural History; Roger L. Batten, University of Wisconsin; Harry B. Whittington, Museum of Comparative Zoology; Thomas W. Amsden, Oklahoma State Survey; Rousseau H. Flower, New Mexico Bureau of Mines; Keith J. Rigby, Bringham Young University; Alberto M. Simonetta, Instituto di Zoologia dell'Universita, Firenze, Italy; W. G. Heaslip, Syracuse University; Olgerts L. Karklins, University of Minnesota; W. D. Ian Rolfe, Harvard University; Mohamed Farouk, Cairo, Egypt; Kiyoshi Osous, Tohoku University of Japan; Charles W. Collinson and Alan J. Scott, Illinois Geological Survey; Willi Ziegler, Geol. Inst., Marburg, Germany; T. G. Gibson, Princeton University; M. LeCompte, Université de Louvain, Belgium; Martin F. Glaessner, University of Adelaide, Australia; Alwyn Williams, Queen's University, Belfast, Ireland; and F. E. Eames and W. H. Blow, British Petroleum Company of Sunbury-on-Thames, England.

Vertebrate paleontology: Shelton P. Applegate, Arkansas State College; Walter Auffenberg, University of Colorado; David Bardack, University of Kansas; Craig C. Black, Carnegie Museum; Barnum Brown, Malcolm McKenna, Giles T. MacIntyre, and Bobb Schaeffer, American Museum of Natural History; Mary R. Dawson, National Science Foundation; Wann Langston, Jr., National Museum of Canada; Farouk Mohamed, University of Cairo; Tor Ørvig, Naturhistoriska Riksmuseum, Sweden; John H. Ostrom, Peabody Museum at Yale University; Alfred S. Romer, Museum of Comparative Zoology; Holmes A. Semken, Jr., University of Michigan; and Leigh Van Valen, Columbia University.

Museum of History and Technology

Science and Technology

Physical Sciences.—Dr. Robert P. Multhauf, head curator of the department, is engaged in research on the early history of chemistry. Associate curator Walter F. Cannon is researching in England on the scientific community in England, 1820–1860, and curator Lester C. Lewis is studying both the history of the spectrophotometer and the "schools" of experimentation in molecular beams. Drs. Lewis and Cannon joined the staff in February 1962.

Mechanical and civil engineering.—Most research effort in the division was directed toward exhibits for the new Museum of History and Technology. For those dealing with refrigeration, in the hall of heavy machinery, the concept of heat removal and the various ways in which it can be effected by mechanical means will be comprehensively explored and demonstrated, both historically and scientifically.

Associate curator Robert M. Vogel visited a number of technical museums in Great Britain and Europe during the past year; during the trip he located several important items needed for exhibit in the hall of machinery. His manuscript of a monograph on the Baltimore civil engineer Wendel Bollman and another on tunnel engineering, were submitted for publication. Work on several other projects was advanced, notably an account of the treatment of the history of civil engineering in European technical museums.

In the section of light machinery and horology associate curator Edwin A. Battison prepared a study on thread cutting machines, and made a substantial number of additions to the cross-indexed list of American clock and watch makers.

Curator Silvio A. Bedini, who joined the staff in November 1961, completed his study of the Borghesi clock, a unique astronomical clock recently acquired by the Institution. He also submitted for publication a paper on early New England instrument makers. This study features a number of surveyors' compasses produced in wood in the period from the American Revolution to the War of 1812, one of which is in the Museum's collections. He also has in preparation a study on Thomas Jefferson as a clock designer. Considerable research is being done for exhibits in the new hall of tools; that for the exhibit on gears and gear-cutting, one of the last to be undertaken, has been completed.

The engineering reminiscences of George Escol Sellers was submitted for publication by former curator Eugene S. Ferguson, who annotated and edited the manuscript. Mr. Ferguson returned to teaching in June 1961, accepting a professorship of engineering at Iowa State University.

Transportation.—A great deal of research is being done to produce plans for exhibit models. In this respect, valuable material on the construction of American vessels of the period 1740–1830 has been obtained from the records of American-built ships in the British Navy, particularly in the Public Records Office in London.

Publication of manuscripts on the bark canoes of the North American Indians and on arctic skin boats, by curator Howard I. Chapelle, is in process, and these two manuscripts, to be combined in one volume, are expected to be in print late this fiscal year. His paper on Fulton's steam battery, the first steam man of war, was presented for publication.

Revision and editing of the book-size manuscript "The Cincinnati locomotive builders" occupied most of associate curator John H. White's time. However, he has devoted some time to papers on the locomotive *Janus*, The Cheviot narrow gauge, and to other projects. A survey history of the automobile was completed for Compton's Encyclopedia.

Don H. Berkebile, exhibits specialist, submitted for publication his paper on the 1893 Duryea automobile, and has continued his research on the development of carriages and freight wagons.

Electricity.—In the absence of a curator of electricity, head curator Multhauf and division consultants made visits during the year to study the Lincoln collection at Brattleboro, Vt., the General Electric collection of meters at Schenectady, N.Y., a collection of electrical instruments at M.I.T., and the Wingard collection at Rock Island, Ill.

Medical sciences.—Associate curator Sami K. Hamarneh continued his research on medical and pharmaceutical history in the Islamic period. He also compiled a bibliography on medicine and pharmacy in Medieval Islam and gave a lecture on "Tenth-century medical development in Islam and its impact on the west," at the Islamic Center, of Washington, D.C.

Research by visiting investigators.—Arthur Frazier visited the division of physical sciences in connection with his study of the history of hydraulic current measurement; Edmund A. Bowles, of International Business Machines Corporation, New York City, and Dr. F. B. Silsbee, of the National Bureau of Standards, also visited us concerning plans for museums by these organizations. Frank G. G. Carr, Director of The National Maritime Museum, Greenwich, England, visited the division of transportation last October on a tour of American marine museums. Mr. Carr discussed with the staff problems and techniques of exhibition in large national museums. Among visitors in the section of land transportation were Lord and

Lady Montagu of the Montagu Motor Museum, Beaulieu, Hampshire, England. Visits also were made by Alfred Waldis, Director of the Swiss Transport Museum in Lucerne, and Dr. John P. Roberts, Director of The National Museum of Transport in St. Louis, Mo. Information, illustrations, and other assistance was given to the National Park Service, National Geographic Society, the National Museum of Transport, St. Louis, Mo., The Adirondack Museum, Blue Mountain Lake, N.Y., as well as to many individual scholars, including Professors David Tyler and William Pierce, John D. Heath, and Kenneth Durant.

Other visitors to the department of science and technology who made use of the collections either to advance their research projects or to gather information were:

Preston R. Bassett, Ridgefield, Conn.; William Bassett, University of Rochester; J. K. Schofield, West Hartford, Conn.; George P. Valluzzo, Danbury, Conn.; Father Daniel Hunter and Father William Stenger, Dominican House of Studies, Washington, D.C.; George W. Taylor, President, Prime Mover Control Museum Association; S. W. Newell, Vice President, Union Diesel Engine Company; L. W. Sagle, Baltimore, Md.; John Roberts, President, National Museum of Transport, St. Louis, Mo.; Orlan W. Boston, University of Michigan; Albert Henderson, Asbury Park, N.J.; Terry Mitchell, Director of Advertising, Frick Company, Pa.; Henry Hope Reed, Architectural Historian, New York; August M. Fritsen, Aarle-Rixtel, Holland; W. B. Stephens, Alameda, Calif.; Gail Brente, Brantford, Ont.; Col. Ephrim Varges, Caracas, Venezuela; Carl Sedan, Detroit, Mich.; R. Walter Prendel, Braintree, Mass.; Capt. A. W. Slaydon, Naval Observatory, Washington, D.C.; F. R. Shawn, Pharrtex, Mexico; Willi Hartner, University of Frankfort, Germany; M. A. Bowman, Utrecht, Netherlands; L. H. Van Der Tweel, Amsterdam, Netherlands; J. P. Savary, New York and Switzerland; and W. R. Morrow, University of Maryland.

Arts and Manufactures

Textiles.—Curator Grace Rogers Cooper completed a short history of quilting for the *Encyclopaedia Britannica.* As textile subject adviser to the *Encyclopaedia*, she also wrote short biographies of John Kay, the inventor of the flying shuttle, and of James Hargreaves, inventor of the spinning jenny, in addition to editing a number of articles on such subjects as textiles, embroidery, cotton manufacture, textile printing, and machine-made lace. Mrs. Cooper continued her research on textile machines and completed her manuscript on the history of the sewing machine, which will be submitted for publication.

Technician Milton Eisler continued his work in the textile laboratory, adopting and refining procedures for the safe removal of soil from natural fibers. Successful results have been achieved with undyed cottons and linens. Only a few silk fabrics have been processed and the results have been rather unsatisfactory. More research is required concerning the dyes used and successful methods of retaining these during the soil-removal operation.

Museum aide Doris Bowman initiated a detailed study of embroidered silk shawls. The research has included a preliminary study of both hand and machine techniques. Miss Bowman is also continuing her study of 16th-century Italian pre-laces, including drawn-work, Buratto, and related techniques.

Ceramics and glass.—Curator Paul V. Gardner is engaged on a biography of Frederick Carder, founder of the Steuben Glass Works, and has carried his research into Mr. Carder's early life and training in England, which he visited during the year.

Michael C. Gast, museum technician, has begun work on a graphic index to visual forms and a precise vocabulary for the description of ceramic and glass objets d'art.

Graphic arts.—Curator Jacob Kainen's monograph on John Baptist Jackson was published as Bulletin 222 of the U.S. National Museum. Jackson was an English artist who pioneered in color printing from wood blocks in the first half of the 18th century, and this book provides the first extended study of the artist's life, career, and achievements. It catalogs and illustrates all his work, reassesses the traditions of the woodcut and the color print, which were considered inferior art forms until the present century, and establishes Jackson as the hitherto unacknowledged ancestor of the color woodcut in Europe. The book also traces his importance as a pioneer in the reproduction of paintings, and as an influence on the development of wallpaper printing. Kainen also continued his study of the Dutch painter and engraver Hendrick Goltzius (1558–1617). This study will examine Goltzius' art and his technical methods, both of which had a critical influence on later painters and engravers.

A study by associate curator Fuller O. Griffith of the lithographs produced by the American artist Childe Hassam was published during the year. It includes the first comprehensive illustrated catalog of the lithographs of this well-known painter and etcher.

Associate curator Eugene Ostroff restudied the collection of photographic equipment, identifying unmarked specimens and cross-indexing them according to design and manufacturer. In cooperation with Mr. Marchal Landgren, of Washington, D.C., he has also been investigating the life and the recently acquired work of George Collins Cox, an almost forgotten photographer who was active in the late 19th century.

Manufactures and heavy industries.—Head curator Philip W. Bishop consulted the laboratories of several petroleum companies in Oklahoma to study methods of presenting petroleum techniques, the Argonne National Laboratory to plan a reproduction of Fermi's CP–1 reactor, and the Brookhaven National Laboratory in connection with neutrino research. An article for *Le Cahier* of the Centre de Documentation d'Histoire des Techniques, Paris, has been completed. This describes the "documentary" resources of the Smithsonian Institution for the guidance of the international student of the history of techniques. Other scholarly research has had to be deferred in favor of the more immediate requirements of the exhibits program.

Associate curator Charles O. Houston, Jr., continued his work on a chronology of innovations in the coal industry. He has made visits to the coal regions of western New Jersey, eastern Pennsylvania, Kentucky, Virginia, and West Virginia, as well as to the Hagley Museum in Wilmington.

Agriculture and forest products.—In September associate curator Edward C. Kendall visited Cornell University to investigate certain aspects of agricultural history. At the Daniel Parrish Witter Agricultural Museum, in Syracuse, which he also visited, he found a wheeled plow of a type rare in this country though common in Europe. Heretofore he has known of only two, one in the division's collection and one other at the Farmers' Museum at Cooperstown, N.Y., both of which came from the same farm and appear to date from the second half of the 18th century. The Syracuse specimen, which lacks the two-wheeled truck, probably dates from the same period.

Research by visiting investigators.—Among the many outside investigators using the collections of the department during the past year were:

Natalie Rothstein, Victoria and Albert Museum, London; John L. Nevinson, England; G. Ellis Burcaw and staff, Commercial Museum, Philadelphia; Mrs. Alice Steiner, Cornell University; Paul Henline, Department of Health, Education, and Welfare, Cincinnati, Ohio; and Gale Fields, Archival Restoration Associates, Philadelphia.

R. L. Stehle, Washington, D.C.; August Clapper, printer for Colonial Williamsburg; William J. Langenheim, Holden, Mass.; Harold E. Edgerton, Massachusetts Institute of Technology; Louis Sipley, Director of the American Museum of Photography; H. J. Aschenborn, State Library, Pretoria, Union of South Africa; Abdelaziz Gorgi, Tunisia; Mr. Prinet, Bibliotheque Nationale, Paris; Bjorn Ochsner, Royal Library, Copenhagen; Niels and Lars Jacobsen, also of Copenhagen; Jerzy Toeplitz, Director of the Institute of Art, Polish Academy of Science, Warsaw; Douglas Arnold, London, writer for the Federation of British Industries and the British Journal of Photography; and Fritz Gruber, Director, Photokina, Cologne.

Civil History

Head curator Richard H. Howland continued his research on Renwick, the architect of the Smithsonian Institution. Much of his time was devoted to studying problems concerning the renovation of the Old Patent Office Building for partial use as the National Portrait Gallery. In January he undertook further research for the National Portrait Gallery in London, Edinburgh, and Amsterdam.

Peter C. Welsh, associate curator, completed and submitted for publication a manuscript on the history of the tanning industry entitled "The forgotten craft: a brief history of tanning to 1850." Mr. Welsh is continuing his long-range research on American hand tools and mechanical furniture based largely on the United States Patent Office records.

Assistant curator Doris Ann Esch has begun an investigation of the navigational and surveying instruments used on the United States Exploring Expedition, 1838–1842, based on the manuscripts and journals from the Expedition in the naval records branch of the National Archives and the scientific instruments in the Museum collection.

Junior curator Ellen Joy Finnegan has begun an investigation of Major Jack Downing in political caricature, based on the *Downing Gazette* and the Harry T. Peters *America On Stone* Lithography Collection. She is assisting Mr. Welsh in the preparation of an article on "Four 18th-century tanners: their wills and inventories."

Political history.—Curator Wilcomb E. Washburn continued research into various aspects of American history. His paper on the effect of Bacon's rebellion on government in England and Virginia has been published. At the invitation of the American Association of Museums, Dr. Washburn accompanied a group of twenty foreign museum officials on a portion of their tour of museums in six midwestern states in May 1961, and participated with them in the annual meeting of the Association in Detroit. Utilizing information gained on the tour, he wrote an article, "Scholarship and the museum," which appeared in the October 1961, issue of *Museum News*. He also presented a paper on "The meaning of 'discovery' in the fifteenth and sixteenth centuries" at the first annual meeting of the Society for the History of Discoveries, in Washington, D.C., in December 1961.

Mrs. Margaret Brown Klapthor, associate curator, continued her research on furnishings of the White House and on White House china. As advisor to the curatorial staff at the White House, she assisted in the identification of many of the pieces of White House furniture in storage. She assisted newspaper reporters, magazine writers, and authors of books with their inquiries on the White House, and also assisted the research staff of CBS News with the historical background for its documentary program, "A tour of the White House with Mrs. John F. Kennedy." Two sets of the loan lecture prepared by Mrs. Klapthor on the First Ladies dresses have been in continuous circulation to all parts of the United States, and they are scheduled for months in advance.

Keith E. Melder, assistant curator, carried on research in several fields, including the woman's rights movement, American education in the 19th century, the development of American political campaign techniques, and the pattern of 19th-century social reform. A brief biographical sketch of Miss Betsey M. Cowles, an Ohio educator and social reformer (1810–1876), was completed for a biographical dictionary of notable American women, to be published by Radcliffe College.

Assistant curator Anne W. Murray gave professional advice concerning the restoration of several dresses to be shown at the James Monroe Memorial Foundation in Fredericksburg, Va., and assistant curator Herbert R. Collins lectured on the history of three Virginia counties to the Virginia Genealogical Society in Richmond, Va.

Cultural history.—Curator C. Malcolm Watkins continued his study of colonial earthenwares found in historic sites, revisiting the National Park Service collection at Jamestown as well as collections in Plymouth, Mass., and has obtained further data on the 18th-century pottery of Yorktown, Va. He inaugurated a 3-year project of compiling original probate inventories, newspaper advertisements and references, excerpts from diaries and account books, and other documents. In this he is being assisted by museum technician Sigrid Westfall.

Associate curator Rodris Roth submitted for publication an exhaustive study of 18th- and early 19th-century floor coverings, and is now working on the documentation of fireplace equipment used during the same period. These investigations were furthered by visits to English and American museums during the summer and autumn.

In the section of musical instruments assistant curator Cynthia Adams Hoover has initiated a study of American musical instruments makers, the first part of which is concerned with pianos of Alpheus Babcock, an early 19th-century piano-forte maker of Boston. She is also pursuing the complete cataloging and documenting of the musical instruments collection, in which she has had the consultative advice of William R. Dowd, of Cambridge, Mass., Frank T. Hubbard, of Waltham, Mass., and Hugh Gough, of New York City, all specialists in harpsichords and other keyboard instruments; Miss Mary Rasmussen, of Durham, N.H., editor of *Brass Quarterly*, and a specialist in brass instruments; and Josef Marx, of New York City, an oboist and historian of woodwind instruments.

Assistant curator John N. Pearce, in collaboration with the Maryland Archaeological Society, has begun excavations of the early 19th-century Morgan stoneware kiln site in Baltimore, as an adjunct of his previous study of early Baltimore potters and their wares. In collaboration with architectural consultant Robert L. Raley and contractor George H. Watson, Mr. Pearce has arrived at detailed plans for an authentic restoration of the interior of an early 18th-century Delaware log house to be reconstructed inside the new museum.

Assistant curator Anthony W. Hathaway is studying the history of the basset horn in addition to furthering his studies at Catholic University in music and art.

The report by research associate Ivor Noël Hume on his excavations at Rosewell, in Gloucester County, Va., was published by the Museum. He has completed an archeological report on excavations he conducted at Tutter's Neck, James City County, Va., and it has been accepted for publication.

Philately and postal history.—Associate curator George T. Turner continued working on the long-range project of compiling an encyclopedia of the U.S. Revenue stamp issues. He devoted time to study further the multiple-reliefs used to produce the 1-cent and 2-cent express revenue plates of 1862. His discovery of a Confederate stamp plate required investigation of its history, a comparison with similar plates, and identification. An article concerning this find is being prepared for publication.

Associate curator Francis J. McCall continued investigating the Hawaiian Missionary correspondence at Houghton Library, Harvard University. He also furthered work on assembling pictures of the subjects used for U.S. stamps. His studies on these stamps formed the basis of several articles which were published in the *Bureau Specialist*. Further, Mr. McCall acted as adviser to the Internal Revenue Service in connection with the forthcoming commemorative stamp being issued for this Agency. He served as one of three judges in the competition conducted by the Fish and Wildlife Service, Department of the Interior, to determine the design of the 1963 Hunting Permit stamp.

Museum technician Theodore Ruhoff continued a compilation of all color names and terms used in the stamp catalogues published here and abroad. An eventual guide is contemplated that will correlate the color descriptions as an aid to philatelists.

Numismatics.—Curator Vladimir Clain-Stefanelli prepared a detailed report about the hall of monetary history and medallic art at the Smithsonian Institution, describing the scope of the numismatic exhibits, to be published in the forthcoming issue of *Museum* (UNESCO, Paris). He also did research for a history of the national numismatic collections. Rewarding was a survey of the medallic portraits of James Smithson; it led to the identification of the artist who modeled the original Smithson medal and to the uncovery of new material in connection with the work of Edward Stabler, die sinker of Sandy Spring, Md., on Smithson's portrait appearing on the first seal of the Smithsonian Institution.

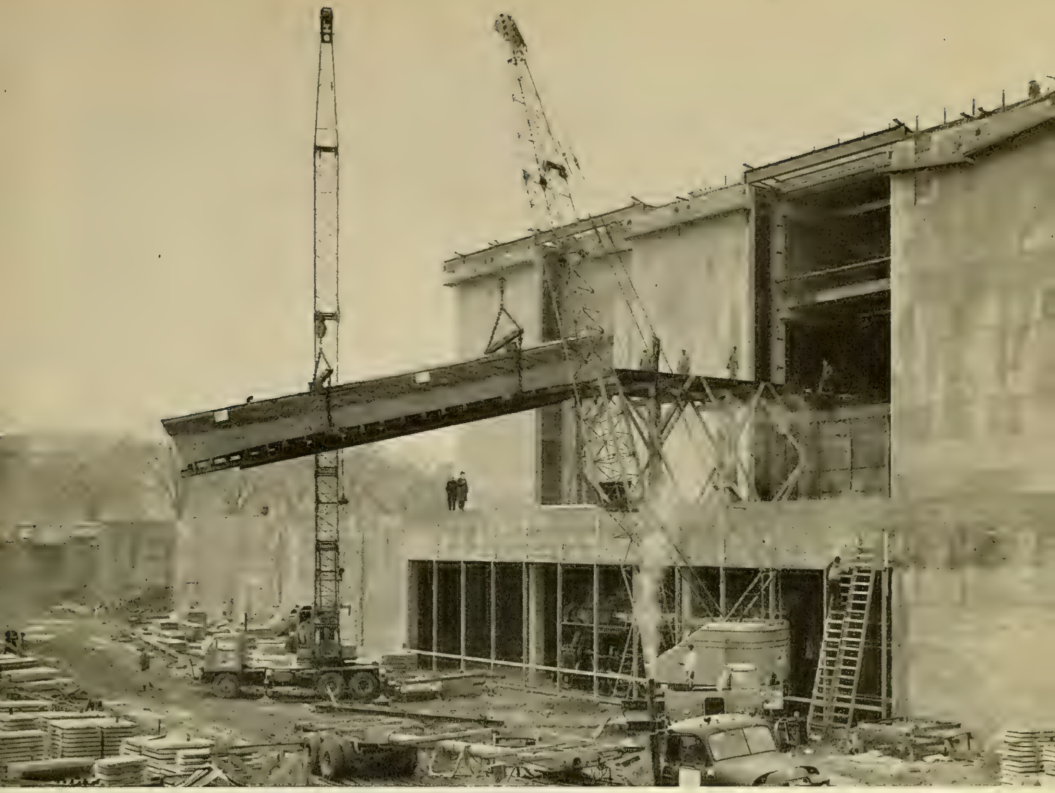
Associate curator Elvira Clain-Stefanelli completed during the past year her "Survey of the history of an ancient science: numismatics." In preparation by Mrs. Stefanelli is a select numismatic bibliography. With over 2,500 titles arranged by topics and completed with an index of authors, it is intended as an up-to-date essential reference. Her "Russian gold coins of the nineteenth and twentieth centuries," a complete study of the Russian output of gold and platinum coins since 1800, is in publication in the *Numismatic Circular*, in London. During a trip to Europe in fall of 1961, Mrs. Stefanelli studied in various museums and private collections the coin material pertaining to the history of the ancient Greek city Messana; the projected monograph on this subject will give a complete numismatic history of this ancient Greek settlement in Sicily. In June 1962 she was chosen as permanent delegate in the United States to the Fédération Internationale des Editeurs de Médailles.

Armed Forces History

Head curator Mendel L. Peterson continued his research on the marking and decoration of muzzle-loading guns and on projects connected with the underwater exploration program. Substantial progress was made on a preliminary report on the first project.

Military history.—Curator Edgar M. Howell, in conjunction with Colonel J. Duncan Campbell, completed their investigation of War of 1812 cantonment sites at Sackets Harbor, N.Y. A number of outstanding recoveries were made and comprehensive plans are under way for similar work next year. Mr. Howell and museum specialist Donald E. Kloster together initiated work on a descriptive catalog of U.S. Army uniforms in the national collections. Mr. Kloster continued his study on the American usage of and changes in the floral motif "Rosemaling" as brought to the United States by Norwegian immigrants. Mr. Howell and Mr. Kloster continued work on methods of preserving silk flags.

Crated Revolutionary War gunboat *Philadelphia* being hoisted to third floor of Museum of History and Technology, where it will be displayed in hall of ordnance. The *Philadelphia* was designated a gondola by Benedict Arnold in his report on the Battle of Valcour Island, during which the craft was sunk (see p. 47).



Associate curator Craddock R. Goins, Jr., is completing a monograph on the development of the breech-loading rifle by John H. Hall, 1811–1831. In connection with his work on the hall of ordnance in the Museum of History and Technology, he made considerable progress on a catalog of the arms collection. He also completed a series of articles for the *Encyclopaedia of Firearms*, to be published by Rainbird, McLean, Ltd., London, in the fall of 1962.

Naval history.—The receipt of the Continental gondola *Philadelphia* launched a research project by curator Philip K. Lundeberg, centering on that object. In company with contractor Mr. James B. Richardson of Cambridge, Md., Dr. Lundeberg proceeded to Essex, N.Y., early in June 1961, to effect preliminary preservation measures as the gunboat was crated. While supervising this delicate operation and the gunboat's initial movement to Albany, Dr. Lundeberg familiarized himself with the topography, historic sites, and museum resources of the Lake Champlain area as the necessary basis for a monograph now being prepared on the *Philadelphia* and the Northern Campaign of 1776. It is interesting to note that subsequent research has revealed a rich variety of graphic materials illustrating the Battle of Valcour Island, which must be regarded as one of the decisive naval engagements of the American Revolution.

Dr. Lundeberg continued preparation of an annotated catalog of U.S. warship models in the collections, which now form the most accurate and complete series in existence. He also continued his study on the evolution of German submarine strategy, preparing a paper on the German naval critique of the U-boat campaign against Allied merchant shipping, 1915–18, for presentation at a forthcoming historical meeting. In March 1961, a British edition was released of the Nimitz-Potter volume on the naval history of World War II, *The Great Sea War*, in which Dr. Lundeberg's chapter on the Battle of the Atlantic appears. It is understood that further foreign editions will be printed in France, Spain, West Germany, and Mexico.

In the course of developing several exhibits depicting the history of the U.S. Coast Guard and its historical antecedents, associate curator Melvin H. Jackson carried out extensive research on the origins and functions of the original Revenue Cutter Service and the distinctive equipment that subsequently typified the old "Revenue Marine," the Lighthouse Establishment, and the Life Saving Service. For the hall of ordnance he completed research on a 10-inch gun turret model and a diorama of the sinking of the *Albemarle*. Mr. Jackson published an article "The consular privateers, 1793–94," in *American Neptune*, April 1962. In addition he made substantial progress on his continued study of the Caribbean and the involvement of the United States in its maritime history. Research was continued on a paper on

John Cabot's landfall in North America, to be presented at the annual meeting of the Society for the History of American Discoverers.

Research by visiting investigators.—Charles F. Romanus, of the Office of the Chief of Military History, Department of the Army, performed extensive research in connection with the uniform collection. Assistance was provided throughout the year to other Government and private agencies, among whom were the Heraldic Branch, Office of Quartermaster General, Department of the Army; Historical Division and Technical Intelligence Branch, Office of Chief of Ordnance, Department of the Army; Prints Division and General Reference Service, Library of Congress; Civil War and Early Wars Branch, National Archives; Naval History Division and Bureau of Ships, Department of the Navy; Naval Historical Foundation; and the National Geographic Society. Also assisted were authors, artists, graduate students, and model builders engaged in naval research.

Publications

The scientific publications of the United States National Museum continued under the editorship of John S. Lea.

In addition to the annual report, the Museum issued publications based on research in the national collections. Of these, 5 whole volumes and 10 papers as parts of 2 additional volumes were in the Bulletin series, 12 publications were in the Proceedings series, and 5 were in the Contributions from the National Herbarium.

At the close of the year, 12 proceedings papers and the following bulletins were in press:

82, vol. 1, part 5. A monograph of the existing crinoids, the Comatulids, suborders Oligophreata and Macrophreata, by Austin Hobart Clark and Ailsa McGown Clark.

226. Checklist of the birds of Thailand, by Herbert G. Deignan.

227, part 1. Marine Polychaete worms of the New England region: 1. Families Aphroditidae through Trochochaetidae, by Marian H. Pettibone.

228. Contributions from the Museum of History and Technology: Papers 19–30, by members of the staff and others.
    Paper 29. The development of electrical technology in the 19th century: 2. The telegraph and the telephone, by W. James King.
    Paper 30. The development of electrical technology in the 19th century: 3. The early arc light and generator, by W. James King.

229. Contributions from the Museum of History and Technology: Papers 31–34, on numismatics, by members of the staff.
    Paper 32. Survey of the history of an ancient science—Numismatics, by Elvira Clain-Stefanelli.
    Paper 33. Italian coin engravers since 1800, by Elvira Clain-Stefanelli.

230. The bark canoes and skin boats of North America, by Howard I. Chapelle and Edwin Tappan Adney.

231. Contributions from the Museum of History and Technology: Papers 35– –, on cultural history, by members of the staff.
    Paper —. Presentation silver in the U.S. National Museum, by Margaret Klapthor.

233. Host relations of the parasitic cowbirds, by Herbert Friedmann.

234. Cephalopods of the Philippine Islands, by Gilbert L. Voss.

236. Free-living copepoda from Ifaluk Atoll in the Caroline Islands, with notes on related species, by W. Vervoort.

237, part 1. Life histories of North American cardinals, grosbeaks, buntings, finches, sparrows, towhees, and allies, by Arthur Cleveland Bent, Oliver L. Austin, Wendell Taber, and collaborators.

Publications reported by the staff, including honorary members, totaled 186. These, listed on pages 105 to 113, were distributed as follows:

Department	*Publications*	*Department*	*Publications*
Anthropology	29	Civil History	19
Zoology	62	Arts and Manufactures	9
Botany	35	Armed Forces History	5
Geology	8		
Science and Technology	19	Total	186

Publications of the United States National Museum

July 1961 through June 1962

REPORT

The United States National Museum annual report for the year ended June 30, 1961. Pp. viii+188, illustr., January 25, 1962.

BULLETINS

216, part 3. Ichneumon-flies of America north of Mexico: 3. Subfamily Gelinae, Tribe Mesostenini, by Henry and Marjorie Townes. Pp. viii+602, 400 figs., March 13, 1962.

222. John Baptist Jackson: 18th-century master of the color woodcut, by Jacob Kainen. Pp. xii+183, illustr. 101 (12 in color), June 1, 1962.

224. Robber flies of the world: The genera of the family Asilidae, by Frank M. Hull. Pp., part 1, x+430, pt. 2, v+431–907, June 25, 1962.

225. Contributions from the Museum of History and Technology: Papers 12–18, by members of the staff and others.

    Paper 17. The effect of Bacon's Rebellion on Government in England and Virginia, by Wilcomb E. Washburn. Pp. 135–152, 8 figs., February 16, 1962.

    Paper 18. Excavations at Rosewell in Gloucester County, Virginia, 1957–1959, by Ivor Noël Hume. Pp. 153–229, 38 figs., May 24, 1962.

228. Contributions from the Museum of History and Technology: Papers 19–30, by members of the staff and others.

    Paper 21. The pioneer steamship *Savannah:* A study for a scale model, by Howard I. Chapelle. Pp. 61–80, 9 figs., September 15, 1961.

    Paper 22. Drawings and pharmacy in al-Zahrāwī's 10th-century surgical treatise, by Sami Hamarneh. Pp. 81–94, 21 figs., October 10, 1961.

    Paper 23. The introduction of self-registering meteorological instruments, by Robert P. Multhauf. Pp. 95–116, 16 figs., September 6, 1961.

    Paper 24. Introduction of the locomotive safety truck, by John H. White. Pp. 117–131, 12 figs., September 5, 1961.

    Paper 25. The migrations of an American boat type, by Howard I. Chapelle. Pp. 133–154, 20 figs., November 6, 1961.

    Paper 26. Holcomb, Fitz, and Peate: Three 19th-century American telescope makers, with introduction by Robert P. Multhauf. Pp. 155–184. 15 figs., January 15, 1962.

    Paper 27. Kinematics of mechanisms from the time of Watt, by Eugene S. Ferguson. Pp. 185–230, 46 figs., February 14, 1962.

Paper 28. The development of electrical technology in the 19th century: 1. The electrochemical cell and the electromagnet, by W. James King. Pp. 231–271, 71 figs., January 15, 1962.

232. The lithographs of Childe Hassam, a catalog, by Fuller Griffith. Pp. vii+66, 45 figs., June 29, 1962.

CONTRIBUTIONS FROM THE NATIONAL HERBARIUM

FROM VOLUME 35

Part 3. Origins of the flora of southern Brazil, by Lyman B. Smith. Pp. viii+215–249, 42 figs., 4 pls., March 19, 1962.

Part 4. A synopsis of the American Velloziaceae, by Lyman B. Smith. Pp. 251–292, 12 pls., March 19, 1962.

Part 5. Synopsis of the South American species of *Vismia* (Guttiferae), by Joseph Ewan. Pp. 293–377, 7 pls., June 5, 1962.

FROM VOLUME 36

Part 2. Marine algae from the tropical Atlantic Ocean: V. Algae from the Lesser Antilles, by William Randolph Taylor. Pp. 43–62, 4 pls., January 31, 1962.

FROM VOLUME 37

Part 1. Studies of Pacific island plants, XVII: The genus *Geniostoma* (Loganiaceae) in the New Hebrides, Fiji, Samoa, and Tonga, by Albert C. Smith and Benjamin C. Stone. Pp. 1–41, 3 pls., January 5, 1962.

PROCEEDINGS

FROM VOLUME 112

Title page, table of contents, and index. Pp. i–vii, 651–677, February 14, 1962.

No. 3449. Revision of the marine silver hatchetfishes (family Sternoptychidae), by Leonard P. Schultz. Pp. 587–649, 26 figs., September 7, 1961.

FROM VOLUME 113

No. 3453. Notes on Australian flies of the family Conopidae, by Sidney Camras. Pp. 61–76, August 1, 1961.

No. 3454. New and previously known millipeds of Panama, by H. F. Loomis. Pp. 77–123, 8 figs., August 16, 1961.

No. 3455. New genera and new species of lacebugs from the Eastern Hemisphere (Hemiptera: Tingidae), by Carl J. Drake and Florence A. Ruhoff. Pp. 125–183, 24 figs., August 1, 1961.

No. 3456. The weevil genus *Smicronyx* in America north of Mexico (Coleoptera: Curculionidae), by Donald M. Anderson. Pp. 185–372, 157 figs., 1 pl., May 31, 1962.

No. 3457. Neotropical microlepidoptera, I and II, by J. F. Gates Clarke. Pp. 373–388, 9 figs., April 30, 1962.

No. 3458. Two new species of *Parastenocaris* (Copepoda: Harpacticoidea) from Santa Catarina, Brazil, by Hans Jakobi and Jayme de Loyola e Silva. Pp. 389–397, 2 figs., June 5, 1962.

No. 3460. Water-striders of the subgenus *Stridulivelia* from Mexico, Central America, and the West Indies (Hemiptera: Veliidae), by Carl J. Drake and Arnold S. Menke. Pp. 413–419, 3 pls., June 19, 1962.

No. 3462. New and little-known species of South and Central American land snails (Bulimulidae), by Juan José Parodiz. Pp. 429–456, 2 pls., June 4, 1962.

No. 3463. *Gorgonolaureus*, a new genus of ascothoracid barnacle endoparasitic in Octocorallia, by Huzio Utinomi. Pp. 457–464, 9 figs., June 19, 1962.

No. 3464. Larvae of the caddis fly genus *Rhyacophila* in eastern North America (Trichoptera: Rhyacophilidae), by Oliver S. Flint, Jr. Pp. 465–493, 11 figs., May 31, 1962.

Publications by Members of the Staff of the United States National Museum

July 1961 through June 1962

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Donors to the National Collections

(*Except when otherwise indicated, the specimens were presented by individual donors or were transferred by the Bureaus of the Government in accordance with law.*)

Abbott, Dr. Charles C. (address unknown): 5 archeological items from Burlington and Somerset Cos., N.J. (241561).

Abbott, Dr. R. Tucker (See Academy of Natural Sciences of Philadelphia)

Aberdeen, University of, Aberdeen, Scotland: (Through Prof. R. V. Jones) crystal of lead fluoride (237999, exchange).

Abonnenc, Dr. E., Dakar, Senegal: 465 miscellaneous insects and slides from Africa (238141, 238142).

Academy of Natural Sciences of Philadelphia, Philadelphia, Pa.: (Through Dr. R. Tucker Abbott) 926 marine mollusks, mostly from Madagascar and British Honduras (239609, 241024, exchanges); (through Dr. James E. Böhlke) 4 fresh-water fishes from Canada (238897); (through Dr. Horace G. Richards, Jr.) 117 mollusks, paratypes, from the Pliocene of Florida from the Fargo-Locklin collection (240811).

Academy of Sciences of the U.S.S.R., Moscow, U.S.S.R.: *Committee on Meteorites:* (Through Dr. E. L. Krinov) 2 iron meteorites from the U.S.S.R. (235287, exchange). *Zoological Institute:* (Through Dr. A. P. Andriashev) 16 fishes from Russia (237397).

Adams, Mrs. Helen (See Shook, Mrs. Richard)

Adams, Mrs. Margaret, Washington, D.C.: 2 19th-century U.S. postal cards (239313).

Adler, Alex J. (See Wyeth Laboratories, Inc.)

Agricultural and Mechanical College of Texas, College Station, Tex.: (Through Byung Lee) 9 plankton specimens (240796).

Agricultural Research Council, Slough, Bucks, England: (Through G. E. Woodroffe) 12 beetles from England (240266).

Agriculture, U.S. Department of, Washington, D.C.: *Agricultural Research Service:* 1,721 phanerogams, 177 grasses, 25 ferns, and 12 isopods from worldwide localities (237110, 237502, 237738, 239307, 240088, 240979, 240982, 241167, 241170); 318 phanerogams and 7 grasses from South Africa collected by H. S. Gentry and A. S. Barclay (237298); (through Dr. Rex W. Allen) 21 fresh-water snails from Arizona and New Mexico (240202); (through Dr. William H. Anderson) 240 land and fresh-water snails and a crayfish from worldwide localities (232069, 232396, 232672, 232839, 233144, 233229, 233644, 233899, 234081, 234319, 234701, 235107, 235357); 68 mollusks from various localities (234841); 59,673 miscellaneous insects, worldwide (241871); (through Dr. K. E. Frick) 16 fruit flies from California (240738); (through Dr. Frederick Meyer) 2 ferns and 17 phanerogams from Europe and the Virgin Islands (238382, 241259, 241419, 241567); (through Dr. Paul W. Oman) 18 land snails from El Salvador, Georgia, and Virginia (231346); (through Dr. Reece I. Sailer) 42 land snails from the Dominican Republic, Honduras, Iran, Italy, and Mexico (231526, 231646); (through Dr. Bernice G. Schubert) 912 phanerogams, 4 ferns, and grass (241261); (through Dr. Willis W. Wirth) 200 copepods (237703). *Forest Service:* 245 phanerogams, 70 grasses, and 2 ferns mostly from western U.S. (236593, 240302, 241656); 415 phanerogams from Puerto Rico, collected by Dr. Elbert L. Little, Jr., June–August 1950 (238729); (through Dr. Elbert L. Little, Jr.) 53 phanerogams (238381). *Soil Conservation Service:* 2 grasses from New Mexico (238548). (See also Smithsonian Institution)

Ahlstrom, Dr. Elbert H. (See Interior, U.S. Department of the)

Akazaki, Masato (See Kyoto University)

Alberta, University of, Edmonton, Alberta, Canada: (Through Prof. R. E. Folinsbee) specimen of the Bruderheim meteorite, 122 grams (236868).

Albuquerque, Dalcy, Rio de Janeiro, Brazil: 120 flies from Nearctic and Neotropical regions (237173, exchange).

Albuquerque, Mrs. Isolda Rocha e Silva, Rio de Janeiro, Brazil: 12 cockroaches, including 6 paratypes, from South America (238124).

Alexander County Coroner's Office, Cairo, Ill.: (Through Herbert N. Henckell) adult female skeleton (234543).

Alger, Louisa R., Cambridge, Mass.: 13 costume and textile items, 19th century (239090).

Algor, John R., Arlington, Va.: Fossil starfish from the Ordovician of Ohio (239109).

Alicata, Dr. J. E. (See Hawaii, University of)

Alio, Mr. and Mrs. Constantin G., Philadelphia, Pa.: Gears, shafts, and timbers from an 18th-century gristmill (240073).

Allan, Greever (See Post Office Department)

Allan, Walter (See Anaconda-American Brass Co.)

Allan Hancock Foundation, Los Angeles, Calif.: (Through Dr. Olga Hartman) 10 marine mollusks from the deeper bottoms of Santa Catalina canyon (239153).

Allen, Aubrey D., Washington, D.C.: Wooden figurine from the Admiralty Islands (238118).

Allen, Dr. Harry W., Moorestown, N.J.: 2 wasps, paratypes, from the West Indies (237312).

Allen, Letha S., Baltimore, Md.: 8 lots of marine shells and 265 land, fresh-water, and marine mollusks from Canada (237206, 238645).

Allen, Dr. Rex W. (See Agriculture, U.S. Department of)

Altschuler, Zalman S., Washington, D.C.: 11 echinoids from the Eocene of Florida (241569, exchange).

Amadon, Dr. Dean (See American Museum of Natural History)

Amelinckx, Dr. S., Mol Donk, Belgium: 13 minerals from Katanga (239659, exchange).

American Express Co., Inc., New York, N.Y.: (Through P. T. Messer) 8 financial documents from various countries (241681); (through Norman F. Page) 44 American Express Company travelers checks (241820); (through O. Thome) 23 forms in current use by donor in connection with banking transactions (241559).

American Museum of Natural History, New York, N.Y.: (Through Dr. Dean Amadon) 2 birds (237545, exchange); (through Dr. William K. Emerson) 153 marine and fresh-water mollusks from worldwide localities (240005, 240782, exchanges); (through Dr. Richard G. Van Gelder) 2 paratypes of a squirrel from Burma (232942, exchange).

American Society of Gem Counsellors, Boston, Mass.: (Through Meyer Brown) Lady Elgin watch (238493).

Ames Shovel and Tool Co., North Easton, Mass.: (Through Richard Harte) 3 coal shovels (239011).

Amos, Howard, Kokomo, Ind.: (Through Maj. C. C. Fisher) precanceled stamp from Canton Island, Phoenix Islands (238483).

Amram, Mrs. Hortense, Washington, D.C.: U.S. Army Signal Corps uniform and Certificate of Identity used by donor during World War I (240316).

Amundson, Carolyn, Washington, D.C.: Cover bearing postage stamps of the Republic of Indonesia, canceled at various towns on the occasion of the first voyage of the SS *Hope* (240119).

(See also Blaisdell, Mrs. Florence Crook)

Anaconda-American Brass Co., Waterbury, Conn.: (Through Walter Allan) Winsted transfer press (241801).

Anderson, Hon. Clinton P., Washington, D.C.: Book, *The Works of Geoffrey Chaucer* (241135).

Anderson, Dr. Lewis (See Duke University)

Anderson, Prof. Marlowe G., University Park, N. Mex.: 3 slides, types, of a trematode worm (236341).

Anderson, Dr. William H. (See Agriculture, U.S. Department of)

Anderson, William W. (See Interior, U.S. Department of the)

Andrews, Dr. E. Wyllys, Yucatán, Mexico: (Through Dr. Carl L. Hubbs) shrimp (237631).

Andrews, Mrs. Marietta M., Washington, D.C.: Glass cigar holder and 3 glass goblets (241788).

Andriashev, Dr. A. P. (See Academy of Sciences of the U.S.S.R.)

Annecke, D. P., Pretoria, South Africa: 55 chalcid flies from South Africa (240736, exchange).

Anonymous: Award medal from Italy, Cuban ten-peso note issued by the Castro government, 7 scrapbooks and a peg lamp, and a diamond and ruby bracelet (236549, 237133, 239141, 239147).

Appalachian Sulphides, Inc., Jefferson, N.C.: 2 apophyllites and 2 copper ores from Knob Mine, Jefferson, N.C. (240231).

Applegate, Dr. Shelton P., State College, Ark.: Fossil bird bone from the Upper Cretaceous, Mooreville formation, Greene Co., Ala. (241865).

Arabian American Oil Co., New York, N.Y.: 4 specimens of impactite material from Saudi Arabia collected by Virgil E. Barnes and Donald A. Holm (236579); (through S. D. Bowers) 117 echinoids from the Jurassic and Cretaceous of Saudi Arabia and 215 invertebrate fossils from Arabia (236571, 236573).

Arbuckle, Mr. and Mrs. Golburn, Washington, D.C.: 10 items believed to have belonged to Comdr. Theodore Gibbs Dewey (240318).

Archeological Society of Maryland: *Southwestern Chapter,* Baltimore, Md.: (Through William A. Tidwell) 14 Indian skeletal remains from the W. R. Winslow site, Montgomery Co., Md. (241162).

Architect of the Capitol, Washington, D.C.: (Through J. George Stewart) Westinghouse D.C. motor and a Cutler-Hammer control box (239360).

Aristeguieta, Dr. Leandro (See Ministerio de Agricultura y Cria)

Arizona, University of, Tucson, Ariz.: (Through Dr. Joseph Bequaert) 3 wasps from Kuré Island (240048); (through Dr. Jane Gray) 64 microscope slides of pollen (237222, exchange); (through Mrs. Therese V. Murchison) voltaite from United Verde Mine, Jerome, Ariz. (236846, exchange).

Arizona State College, Flagstaff, Ariz.: 2 phanerogams (237303).

Arizona State University, Tempe, Ariz.: (Through Dr. Carl R. Zimmer) general radio wave analyzer (239384).

Arkansas Polytechnic College, Russellville, Ark.: (Through Dr. Dwight M. Moore) 2 ferns from Arkansas (240403, 240980).

Arkwright, Hon. George A., Brooklyn, N.Y.: Deed signed by Peter Stuyvesant, 1656 (237080).

Arnold, Edwin H., Washington, D.C.: Buckboard, ca. 1890 (239766).

Arnold, Mrs. John R., Chevy Chase, Md.: 6 Japanese and 3 Chinese copper coins of the 20th century (237893).

Arnow, Theodore, Santurce, Puerto Rico: 25 gorgonians (237505).

Ashley, Alex McC. (See Howgate, Ida)

Aslakson, Capt. Carl I., Bethesda, Md.: 5 marine mollusks from Australia and Florida (241271).

Association of American Railroads, Washington, D.C.: (Through H. L. Eddy) 40 volumes of ship, streetcar, and railroad drawings and photographs (241913).

Athearn, H. D., Cleveland, Tenn.: 1,010 fresh-water mollusks from southeastern U.S. (239290).

Atkins, Mrs. Harriett Ann, and Mower, Mrs. Martha Rebecca (addresses unknown): (Through B. Woodruff Weaver and Frank Klapthor) 4 mason jars and equipment for making shot gun shells, 19th century (240633).

Atlantic Union College, South Lancaster, Mass.: (Through Dr. David G. Kissinger) 2 paratypes of weevils from North America (241328, exchange).

Atomic Energy Commission, Washington, D.C.: (Through Brigham Young University) 327 grasshoppers and related insects from Nevada (238136); (through Watson Fenimore) 18 objects from Kapingamarangi, Caroline Islands (237062); (through Dr. Glenn T. Seaborg) 3 exhibits on fusion and parity (235799).

Auburn University, Auburn, Ala.: 31 phanerogams from Alabama (233878); (through Samuel B. Jones, Jr.) 42 ferns from Alabama (237735).

Auckland Institute and Museum, Auckland, New Zealand: 48 phanerogams and 2 ferns from New Zealand (240092, exchange).

Austin Peay State College, Clarksville, Tenn.: (Through Dr. Haskell C. Phillips) 36 lichens from Tennessee collected by Dr. Phillips (234235).

Australia, Government of: *Animal Industry Branch,* Alice Springs, Northern Territory: (Through Dr. G. Chippendale) 93 phanerogams, 5 grasses, and a fern from the Northern Territory, Australia (240662). *Australian Museum:* (Through Dr. Brian Daily) 204 tektites from Australia (235362, exchange). *Botanic Gardens:* 194 phanerogams, 36 grasses, 60 ferns, and 2 cryptogams from Australia (236586, 236788, 238065, 238728, exchanges). *Botanic Museum and Herbarium:* 12 grasses from Australia (240951, gift-exchange). *Commonwealth Scientific and Industrial Research Organization:* 787 phanerogams, 89 grasses, 70 ferns, and 4 cryptogams from Australia and New Guinea (237299, 239004, exchanges); (through Dr. H. E. Dadswell and H. D. Ingle) 445 wood specimens from Netherlands New Guinea (232831, exchange); (through Dr. R. D. Hoogland) 2 microscope slides of wood (237220, exchange). *Department of Mines,* Adelaide, South Australia: (Through Dr. Nell H. Ludbrook) 30 brachiopods from the Tertiary of South Australia (239751, exchange).

Avrahami, Levi, Jerusalem, Israel: 2 gold and 2 silver coins commemorating the centennial of Theodor Herzl, 1860–1904 (237895).

Axelrod, Dr. Herbert R., Jersey City, N.J.: Holotype of a fish from Brazil (240277).

Ayensu, Edward W., Sekondi, Ghana: 23 microscope slides of wood (236640).

Ayers, Mrs. Samuel Henry, Washington, D.C.: (Through Mrs. Edward E. Ginn) miniature portrait of Mrs. Grover Cleveland (236938).

Ayre, Katie May, Washington, D.C.: 7 costume accessories of the 18th and 19th centuries (237919).

Ayres, John E., Sarasota, Fla.: 3 brachiopods from the Tertiary and Miocene of DeSoto Lakes, Fla. (241763).

B & B Supplies, Fort Worth, Tex.: (Through Token and Medal Society) Coin Collectors of America medal, 1962 (241733).

Bacescu, Dr. M. (See Museul National de Istoria Naturala "Grigore Antipa")

Back, Dr. Frank (See Zoomar, Inc.)

Bagchi, Dr. T. C. (See India, Government of)

Baghdad, University of, Abu Ghraib, Iraq: 2 grasses from Iraq (240694).

Bailey, Dr. Reeve M. (See Michigan, University of)

Bailey, Prof. Stanley F., Davis, Calif.: Thrip from California (239172). (See also California, University of)

Baker, Dr. Arthur A. (See Interior, U.S. Department of the)

Baker, Mrs. Beatrice E. Wilson, Washington, D.C.: 9 costume accessories of the 19th and 20th centuries, 7 hand-made laces, and 40 German 1000-mark notes, 1910 (236885, 237585).

Baker, Dr. C. L. (See Southwestern at Memphis)

Baker, Maj. Donald B., Aberdeen Proving Ground, Md.: 2 wasps from Maryland (238143).

Baker, Dr. E. W. (See Manson, D.C.)

Balch, Robert F., Appleton, Wis.: 6 fresh-water mollusks from Tennessee (235145).

Baldwin-Lima-Hamilton Corp., Lima, Ohio: (Through Henry Barnhardt and P. E. Percy) collection of drawings from the Lima Locomotive Works (239717).

Baldwin, Wayne J. (See California, University of)

Baloch, Dr. N. A., Hyderabad, Pakistan: 23 items of clothing, jewelry, and rugs from Pakistan (240629).

Baltars, Eduards, Baltimore, Md.: 55 phanerogams and grass from Maryland (233927, 239732).

Baltimore, City of, Baltimore, Md.: (Through Laurence B. Daley) 1,790 tobacco and recordation tax stamps (241182).

Bandy, Mark, Wickenburg, Ariz.: 39 clays and phosphates from various localities (240235, exchange).

Banerjii, P. B. (See India, Government of)

Banfill, Brig. Gen. Charles Y., Washington, D.C.: Korean A-frame "Seokago," collected by donor (198368).

Banks, Donald J., Athens, Ga.: 4 grasses from Florida (241255).

Banks, John T., Norfolk, Va.: 58 mammals from Virginia (241579).

Banks, Mrs. Margot Blaisdell, Miami, Fla.: (Through Marine Laboratory, The) 940 marine mollusks from the Seychelles (239914).

Banno, Dr. Shohei (See Tokyo, University of)

Barbehenn, Dr. Kyle R., Agana, Guam: 324 shrews, 2 blindsnakes, and 1 vial of myriapods from worldwide localities collected by Dr. Barbehenn (237081, 241766).

Barbour, Thomas R., East Peoria, Ill.: 4 pyrites replacing snails from near Farmington, Knox Co., Ill. (236922).

Barclay, Dr. Harriet G., Tulsa, Okla.: 1,050 phanerogams and 250 grasses from Bolivia, Colombia, Ecuador, and Peru (235349).

Barnard, Dr. Keppel H. (See South Africa, Republic of)

Barneby, Rupert C., Greenport, L.I., N.Y.: 13 phanerogams from western U.S. collected by donor (238378).

Barnes, Col. Theodore, Miami Beach, Fla.: (Through B. Woodruff Weaver) miniature portrait of Abraham Lincoln by Francis B. Carpenter (223416); (through Mr. and Mrs. B. Woodruff Weaver) U.S. Army dress coat, mess jacket, and 2 officer's shoulder knots (239339).

Barnett, R. D. (See Great Britain, Government of)

Barnhardt, Henry (See Baldwin-Lima-Hamilton Corp.)

Barr, Dr. Thomas C., Jr., Lexington, Ky.: 30 beetles from North Carolina and Tennessee (236417, 240056); 36 beetles, including 30 paratypes, from North America (241719, exchange). (See also Kuehne, Dr. Robert A.)

Barr, Dr. W. F., Moscow, Idaho: 6 moths and 8 carrot beetles from Idaho (240057, 241174).

Barrow, Dr. Terence (See Dominion Museum)

Bartlett, Mrs. Cornelia Comegys (See Brunschwig, Mrs. Zelina Comegys)

Barto, Mr. and Mrs. Wellington F., Arlington, Va.: Woman's silk mantle and muff of the period 1900 (237855).

Barton, E. Hank, Falls Church, Va.: 5 bills from Kwantung Province, China, 1918 (238469).

Bashlow, Robert, New York, N.Y.: Obverse and reverse dies of the Confederate cent made in 1861 by Robert Lovett, 2 hubs, 8 transfer dies, and 20 trial and regular impressions (241731).

Bassett, Preston R., Ridgefield, Conn.: 2 blown glass sperm-oil lamps, earthenware batter pitcher, 17th-century English repoussé brass "curfew," a wooden featherbed smoother, and a surveyor's kit (236805, 238706).

Batchelor Fund, Charles and Rosanna, Smithsonian Institution: 6,829 mint airmail and used stamps, and a philatelic cover bearing 4-cent postage stamps of Newfoundland (241108, 241110, 241305).

Batra, L. R., Lawrence, Kans.: 5 moths from North America (241501).

Battison, Edwin A., Washington, D.C.: Tuft's steam gage, 1857, and a clockmaker's turn (238488, 241186).

Bauer, Mrs. Grenelle Hunter, Palo Alto, Calif.: Piece of black woolen flannel (237601).

Beach, Mrs. Howard (See Gwynn, Mrs. Charles A.)

Beaman, Dr. John H., East Lansing, Mich.: Phanerogam, isotype (236931).

Beck, Dr. D. Elden, Provo, Utah: 366 beetles from the Nevada test site (241432). (See also Brigham Young University)

Beck, Frank R., Salvador, Bahia, Brazil: Chambersite from Chambers Co., Tex. (241266).

Becker, Millard, Haines Falls, N.Y.: Wood-boring device (241805).

Becker, Ralph E., Washington, D.C.: Jefferson campaign banner, ca. 1800 (225014); Martin Van Buren campaign banner of 1836 (233476); picture frame (238992); ceramic Admiral Dewey humidor, medal, and a pitcher commemorating the Battle of Manila Bay, 1898 (239340); 3 commemorative medals, miniature canteen, and a Civil War identification tag, Massachusetts Militia Commission (239758).

Becker, Ralph E., and Brookhart, Smith W., Washington, D.C.: Bust of Dwight D. Eisenhower by Nison Tregor (240312).

Becklake, J. T., Pretoria, Republic of South Africa: (Through Wallace B. McFarland) 3 medals struck in 1961 commemorating the establishment of the Republic of South Africa (240098).

Bedini, Silvio, Washington, D.C.: Barometer, ca. 1850 (240912).

Beelar, Barbara, Arlington, Va.: Doll, ca. 1895, with clothing and playthings (237229).

Beets, Virginia, Alexandria, Va.: 4 oak posts of an early colonial bed (240070).

Bell, Flora, Washington, D.C.: (Through Mrs. Martin T. Wiegand) 29 fashion magazines containing color fashion plates, 19th century (241320).

Bell, J. M. (See Post Office Department)

Bell, Mrs. Mae W. (See Rocky Mount Children's Museum)

Bell, Dr. William C., Austin, Tex.: 150 invertebrate fossils from the Devonian of Turkey (239117).

Belton, Robert R., Washington, D.C.: 1,041 phanerogams, 77 grasses, 23 ferns, and 15 cryptogams from Oregon (236638).

Benedict, Mrs. E. L., Portland, Oreg.: 2 international exhibition and convention badges (237589).

Benesh, Bernard, Burrville, Tenn.: 35 scarab beetles from Arizona (239327).

Benfer, Norton, Washington, D.C.: 36 objects related to pharmacy and agricultural chemistry (238503).

Benjamin, Dr. James D., Berlin, N.Y.: 130 miscellaneous U.S. Navy Medical Corps uniforms and insignia, ca. World War II (239058).

Benninghoff, Dr. William S. (See Michigan, University of)

Ben-Tuvia, Dr. Adam (See Israel, State of)

Bequaert, Dr. Joseph (See Arizona, University of)

Berg, Dr. C. O., Ithaca, N.Y.: 23 flies from Australia and Central America (238144, 240067).

Berkebile, Donald H., Washington, D.C.: Prohibition Party badge and a Civil War haversack (237886, 241427).

Berlinsky, Anthony R. (See Commerce, U.S. Department of)

Bermuda Government Aquarium and Museum, Flatts, Bermuda: (Through Louis S. Mowbray) 3 spiny lobsters and a scyllarid (237525).

Bermudez, Dr. Pedro J., Caracas, Venezuela: (Through Ruth Todd) 175 planktonic Foraminifera, including 27 holotypes and 5 paratypes, from the Caribbean region (237567).

Berner, Leo D., Jr. (See Scripps Institution of Oceanography)

Berolatti, L. J. (See Linde Company)

Berry, Frederick H. (See Interior, U.S. Department of the)

Berry, Dr. S. Stillman, Redlands, Calif.: 3 marine mollusks from Peru and Baja California, Mexico (239289).

Berwick, Mrs. Clara W., Norwood, Mass.: 6 Persian rugs (226168, 239933).

Bethlehem Steel Co., Bethlehem, Pa.: (Through William H. Jess) sections of the mill roller table taken from the original Grey Mill installation, 1907–08 (238249).

Betts, Mrs. Edward C., Washington, D.C.: Silk duster, 2 fans, and a Suffrage badge of the early 20th century (241032).

Betz, Esther, Ann Arbor, Mich.: 2 wreaths (237595).

Biaggi, Dr. Virgilio, Jr. (See Puerto Rico, University of)

Bibber, Richard A., Hampton, N.H.: 2 muscovites from New Hampshire (236491).

Bick, Mario J. A., New York, N.Y.: Thumb piano and a gourd resonator from the Lungu tribe, Tanganyika (239279).

Biezanko, Dr. Ceslau M., Pelotas, Brazil: 748 miscellaneous insects from Brazil (238699, 241289, 241509).

Bigelow, Dr. Henry B. (See Harvard University)

Bingham, Mrs. Millicent Todd, Washington, D.C.: Drinking cup and 12-piece bedroom set, including pottery bowl, pitcher, slop jar, and smaller related pieces (238000).

Bingham, Mrs. Walter VanDyke, Washington, D.C.: 7 costume items of the 19th century (238836).

Binsley, Mrs. Paul N., Youngstown, Ohio: (Through Token and Medal Society) bronze medal struck in 1953 commemorating the Ohio Sesquicentennial (241438).

Biology Unit of the American Topical Association, Fredonia, N.Y.: (Through Willard F. Stanley) 374 stamps depicting biological subjects (241735).

Bishop, Dr. Philip W., Washington, D.C.: 3 covers bearing miscellaneous foreign stamps (240343).

Bishop Museum, Bernice P., Honolulu, Hawaii: 21 shells from the Port Stanley area, Falkland Islands, and 2 phanerogams from Hawaii (229725, 239295); (through Dr. T. C. Maa) 4 wasps from Solomon Islands and Southeast Asia (237401, exchange).

Blair, Charles S., Birmingham, Ala.: White oak-wood roller and historical photograph (236941).

Blaisdell, Mrs. Florence Crook (deceased): (Through Carolyn Amundson) pair of gold slippers of the period 1928 (236308).

Blake, Mrs. Doris H., Arlington, Va.: 330 miscellaneous beetles (240064).

Blanc, F. L., Sacramento, Calif.: Paratype of a fruit fly from California (234530, exchange).

Blancett, Esther, Washington, D.C.: 5 picture post cards bearing U.S. and foreign postage stamps, an envelope bearing postage meter impression, and a first-day cover (240338).

Blanchard, Ruth E. (See Smithsonian Institution)

Blanton, Dr. F. S., Gainesville, Fla.: 7 robber flies, including a holotype, from the Neotropic (238679).

Bliss, Mrs. Donald, Washington, D.C.: 8 pieces of electrical equipment, an Edison phonograph, and a Hersey water meter (238754).

Blum, Dr. Murray S., Baton Rouge, La.: 500 ants from Africa (238671).

Blum, William F., Lake Ronkonkoma, N.Y.: 3 wooden models of U.S. stage coaches of the 19th century (235436).

Boardman, Dr. Richard S. (See Interior, U.S. Department of the)

Bode, Mrs. Sarah, Chicago, Ill.: 16 19th-century linens (237127).

Bohart, Dr. Richard M. (See California, University of)

Böhlke, Dr. James E. (See Academy of Natural Sciences of Philadelphia)

Bolling, N. L., Manassas, Va.: Datolite from Bull Run Quarry, Loudoun Co., Va. (238101).

Booth, William H., Yucca Valley, Calif.: Gray walkingstick from California (237415).

Borgmeier, Rev. Thomas, Jacarepagua, Brazil: 44 humpbacked flies, including 30 new species, from South America (237154).

Borro, Dr. Primitovo, Havana, Cuba: 7 specimens of a Recent brachiopod from Cuba (236570).

Borst, Prof. Lyle B. (See New York University)

Bosch, Harry K., Baltimore, Md.: Bottle (241784).

Bostitch Co., East Greenwich, R.I.: (Through E. G. Gardner) paper stapling machine (241806).

Boston, Prof. Orlan W., Ann Arbor, Mich.: 7 machinability dynamometers (238758); 23 glass slides of Mark IV mines, ca. World War I (240317).

Boston University, Boston, Mass.: (Through Dr. Robert H. Gibbs, Jr.) 1,192 marine invertebrates (234760); 7 fishes from off New Jersey (239713).

Bostwick, Dr. David A. (See Oregon State University)

Botanical Museum and Herbarium of the State University, Utrecht, Netherlands: 30 phanerogams and grass (238268, 238829).

Botanische Staatssammlung, Munich, Germany: 160 lichens (240295, exchange).

Botanischer Garten und Museum, Berlin-Dahlem, Germany: 514 phanerogams, 29 grasses, 26 ferns, and 1 cryptogram (239183, exchange); (through Dr. D. E. Meyer) 5 ferns from Europe (241420, exchange).

Bouček, Dr. Z. (See National Museum)

Boucot, Dr. Arthur J., Pasadena, Calif.: 1,500 invertebrate fossils from various localities (238979).

Boudreaux, Dr. H. B., Baton Rouge, La.: 21 plant lice from Louisiana (241291).

Bourgeois, Wilma E., Phoenix, Ariz.: Bells from the campaigns of 1956 and 1960 (235859).

Bousfield, Dr. E. L. (See Canada, Government of)

Boutin, Pete, New York, N.Y.: Cover bearing contemporary Russian stamps (239919).

Bowers, S. D. (See Arabian American Oil Co.)

Bowles, Edmund (See International Business Machines Corp.)

Boyce Thompson Institute for Plant Research, Inc., Yonkers, N.Y.: (Through Dr. Albert Hartzell) 7,966 miscellaneous insects, worldwide (241502).

Boyd, Mrs. F. C. C., New York, N.Y.: Book autographed by Button Gwinnett, for deposit in the F. C. C. Boyd Memorial collection (237550).

Bradford, Faith, Washington, D.C.: 3 brooches and a cross pendant worn by donor's family during the 19th century, and a porcelain pitcher depicting poem in handwriting of donor's mother (238581, 240743).

Bradshaw, John Jr., Arlington, Va.: 14 snakes from Virginia (239385).

Bradt, L. D. (See Olin Mathieson Chemical Corp.)

Branch, Mrs. Nina (See Florida State Board of Health)

Brandt, John H., San Francisco, Calif.: 4 birds (240284).

Braun, Dr. Annette F., Cincinnati, Ohio: Small moth from California (237311).

Brennan, Dr. James (See Jones, Eleanor K.)

Brent, Mrs. Sarah S. (See Swiss, E. W.)

Bretz, Norton Lee, Jersey Shore, Pa.: 2 marcasite concretions in shale from Antrim Co., Mich. (239439).

Breuer, Joseph P. (See Game and Fish Commission)

Brewer, Mrs. David G. (See Vos, Mrs. Bert J.)

Briceño-Maaz, Dr. T., Barcelona, Venezuela: Beetle larvae, grasshopper, fish, and 2 reptiles from Venezuela (239890).

Briggs, Dr. M. H. (See Victoria University of Wellington)

Brigham Young University, Provo, Utah: (Through Dr. D. Elden Beck) 247 ants from the Nevada test site (238430). (See also Atomic Energy Commission)

Briñas, Amado R. (See Central Bank of the Philippines)

Briner, Capt. Charles E. (See Defense, U.S. Department of)

Briskman, Nathan S. (See Heinmuller, John P. V.)

Bristow, Andrew Mercer, Towson, Md.: 2 Japanese Kendo fencing costumes (240656).

British Columbia, University of, Vancouver, Canada: (Through Dr. I. McT. Cowan) 9 gastropods from the eastern Pacific (239243); (through Dr. R. F. Scagel) 25 algae (237221, exchange).

British Guiana Forest Department, Georgetown: (Through George Phillips) 191 wood specimens from British Guiana (235339, exchange).

Brodie, Prof. Allan G. (See Illinois, University of)

Brookhart, Smith W. (See Becker, Ralph E.)

Brooks, C. F., Bluefield, W. Va.: 2 oil wick type hand lamps (234932).

Brooks, Herbert J., Alexandria, Va.: Beaded belt from the Winnebago Indians, about 1900 (238120).

Brower, Dr. A. E. (See Maine Forest Service)

Brown, Dr. Harry E., Columbia, Mo.: Wasp from Indiana (241507).

Brown, Mrs. Margaret C. (See Wilson, Mrs. Woodrow)

Brown, Meyer (See American Society of Gem Counsellors)

Brown, Ron G., Panania, N.S.W., Australia: 3 cabochons from Australia (240234).

Brown, Dr. William A., Jr., and Channel, Mrs. Warren, Portsmouth, Va., **Conger, Clement E., and Conger, Mrs. Hallie Ramsay,** Alexandria, Va., **Langdon, Mrs. John, and Reese, Katharine M.,** Providence, R.I., **Ramsay, Dennis,** Cheyenne, Wyo., **Ramsay, Douglas Taylor,** Rocky Mount, N.C., **and Talliaferro, Harriotte,** Rock Springs, Wyo.: Collection of Ramsay family heirlooms and documents (220760).

Brown & Sharpe Mfg. Co., Providence, R.I.: 3 Brown & Sharpe gear cutters (238760).

Bruce, George A. (See International Import Co.)

Bruce, James A. (See Defense, U.S. Department of)

Bruijning, Dr. C. F. A. (See Laboratorium voor Parasitologie)

Bruns, Franklin R., Jr., Washington, D.C.: 43 special presentation books of U.S. stamps, 1960–61, White House ceremonial program, 593 miscellaneous U.S. and foreign philatelic covers, 4 philatelic cigarette cards, United Nations souvenir folder containing stamps, and 13 Post Office presentation albums, some containing stamps (238482, 238485, 239188, 240126, 240820).

Brunschwig, Mrs. Zelina Comegys, Peardon, Mrs. Celeste Comegys, Bartlett, Mrs. Cornelia Comegys, New York, N.Y.: Portrait of B. B. Comegys and copy of *A Tour Round My Library* and some other papers by B. B. Comegys, given in memory of their father, Dr. Joseph P. Comegys (241777).

Bryan, Albert V., Jr. (See Rotchford, Miriam Blanche)

Bryan, Dr. D. E. (See Oklahoma State University)

Buchwald, Dr. Vagn (See Mineralogisk Museum)

Buck, Paul, Cache, Okla.: 6 phanerogams from Oklahoma, collected by donor (237733).

Bugbee, Dr. R. E., Meadville, Pa.: 20 chalcid flies from the U.S. (240672).

Bullard, Mrs. Robert Lee, La Jolla, Calif.: General Bullard's 3-star flag (238616).

Bullis, Harvey R., Jr. (See Interior, U.S. Department of the)

Bullock, Dr. Dillman S., El Vergel, Angol, Chile: 100 pupal skins of a gall midge (240049).

Bullock, John R., Vancouver, B.C., Canada: "Aquatic" type microscope (237039).

Bunting, Mrs. Ethel Jane, Washington, D.C.: Set of 4 dancing figures, 2 school slates, and sample of fuller's earth from Pakistan (240188); Kashmir shawl from India (241714).

Burch, John Q., Los Angeles, Calif.: 4 pelecypods from the Philippines (237940).

Burch, Mr. and Mrs. John Q., Los Angeles, Calif.: 7 mollusks, including a paratype, from Baja California and Mazatlán, Mexico, (238984, 241481).

Burdette, Mr. and Mrs. John S., Arlington, Va.: 166 pieces of pressed and blown glass of the 19th century (240637).

Burgess, Dr. C. M., Honolulu, Hawaii: 20 marine mollusks from Hawaii and Jamaica (240916, exchange); (through William E. Old, Jr.) mollusk from Hawaii (240998).

Burgess, James V., Jr. (See Mine Ventilation Systems, Inc.)

Burjorjee, Dinshaw M., Washington, D.C.: Ten rupee note issued in Burma during the Japanese occupation (240031).

Burkart, Dr. Arturo (See Instituto de Botánica Darwinion)

Burks, Dr. Barnard D., Washington, D.C.: 17 miscellaneous foreign covers and 3 picture post cards bearing postage stamps (240117).

Burleigh, Theodore C., Winchester, Mass.: (Through Dr. Thomas R. P. Gibb, Jr.) 4 Weston and Deprez et Carpentier electrical meters (239315).

Burlinson, Mrs. Maurice A., Tucson, Ariz.: 9 Otis family scrapbooks of donor's family, and a copy of *The Story of Winnetka* (236830); woman's dress of 1913 and suit of 1914 (237723).

Burnett, Harry C. (See Florida, State of)

Burns, Dr. William C., Madison, Wis.: Holotype and paratype of a new species of trematode worm (237289).

Burt, James G., Oxford, Pa.: Wood (239181).

Burton, Ernest R., Middlebury, Vt.: Man's evening suit of the period 1910 (239612).

Bushnell, J. Paul, Vernon, Vt.: Router and a jigsaw given in memory of donor's father, J. E. Bushnell (238215).

Buss, Dr. Keen (See Pennsylvania Fish Commission)

Butcher, Henry P., Volcan, Panama: Phanerogam from Panama (236192).

Butler, Brig. Gen. Benjamin J., Fort Chaffee, Ark.: (Through Sidney Haas) 6 distinctive insignia currently used in the 100th Infantry Division of the U.S. Army (241877).

Buzzell, Richard G. (See Colt Patent Fire Arms Co.)

Byers, Dr. George W., Lawrence, Kans.: Moth from Kansas (241272).

Byrd, Dr. Elon E., Athens, Ga.: 2 helminth worms, including type (235726).

Byrne, Mrs. Henry H., Washington, D.C.: 2 adzes and a 3-tined hoe (239136).

C.B.S. Laboratories, Stamford, Conn.: (Through Dr. Peter G. Goldmark) Columbia long playing record, 1945 (238234).

C. J. Langenfelder & Son, Inc.: Baltimore, Md.: (Through Ralph C. Hammer) sample of diatomaceous earth (239645).

Cairo University, Cairo, Egypt: (Through Prof. A. Hifny Saber) 3 phanerogams (241023).

California, State of, Sacramento, Calif.: *Department of Fish and Game:* (Through William Heubach) 8 copepods (238615). *Division of Mines and Geology:* 15 minerals from California (240043, exchange).

California, University of, *Berkeley Campus:* 119 algae (237301, exchange); 158 phanerogams, 2 grasses, and 33 ferns mostly from the Andes (239642, exchange); 82 phanerogams and 25 ferns (237475, 240296, gift-exchanges); 21 phanerogams, 3 grasses, and 19 ferns (237561, 238547, 239357); (through Paul C. Hutchison) 4 phanerogams and 59 ferns (236720); 37 phanerogams and 35 ferns (240861, gift-exchange); (through William A. Newman) 10 barnacles (237613); (through Prof. H. A. Schade) 10 ship half-models (235876); (through Isabelle Tavares) 164 cryptogams from California (241651, exchange). *Davis Campus:* 10 grasses from California (205673, 239432); (through Prof. Stanley F. Bailey) 2 thrips from California (241345, exchange); (through Dr. Richard M. Bohart) 18 wasps from California (239913). *El Centro Campus:* (Through Vincent D. Roth) 44 isopods (235186). *Livermore Campus:* (Through Dr. Herbert W. Newkirk) artificial bromellite (241269). *Los Angeles Campus:* (Through Wayne J. Baldwin and Dr. John Stephens) 49 fishes, including 3 holotypes and 46 paratypes (240696, exchange); (through Drs. Boyd W. Walker and Victor G. Springer) fish, holotype, from Clipperton Island collected by W. J. Baldwin (237314). *Riverside Campus:* (Through Dr. P. H. Timberlake) bee from North America (236962). *Santa Barbara Campus:* (Through Dr. Demarest Davenport) sea anemone (237689); (through Dr. C. H. Muller) 15 phanerogams (237030).

California Academy of Sciences, San Francisco, Calif.: (Through Hugh B. Leech) 12 beetles, including paratype, mostly from North America (241430, 241503).

California Department of Fish and Game, Terminal Island, Calif.: (Through Earl E. Ebert) 10 gorgonians (236425).

California Institute of Technology, Pasadena, Calif.: (Through Prof. R. W. Sorensen and C. G. Suits) Millikan and Sorensen electronic vacuum switch, 1923 (240481).

California Standard Co., Edmonton, Alberta, Canada: (Through Dr. Alfred Lenz) 90 brachiopods and 45 ostracodes from the Silurian of southern Northwest Territories (234214).

Cambridge, Sgt. Philip, Cardiff, Wales: 460 marine and land mollusks from the eastern Atlantic (203841); 150 fossil invertebrates from the Paleozoic, Mesozoic, and Tertiary of Great Britain, also 34 mollusks from British Isles (237568, 238843, exchanges).

Cambridge, University of, Cambridge, England: 3 phanerogams from New Guinea, including type (236712, exchange).

Cameron, Dr. E. N. (See Wisconsin, University of)

Camicia, N. T. (See Island Creek Coal Co.)

Campau, D. E., Billings, Mont.: 10 Foraminifera from the Upper Paleozoic of Michigan (238116).

Campbell, Robert H. (deceased): (Through Herbert R. Collins) 4 men's shirts, sleeve cuff, and 3 pairs of men's lace shoes, 1925–35 (241358).

Campbell, W. C., Setauket, N.Y.: Plate bearing likeness of President John F. Kennedy (236612).

Campbell, William C., Chicago, Ill.: Commercially-sized coal samples (236944).

Campos, Dr. Luciano, La Cruz, Chile: 3 flies from Chile (238123).

Canada, Government of: *Department of Agriculture:* 191 phanerogams, 4 grasses, and 18 ferns from Alaska (239005, exchange); (through W. J. Cody) 16 bamboos (241859); (through Dr. J. F. McAlpine) 7 flies, paratypes, from Arizona, California, and Texas (238695); (through C. D. F. Miller) paratype of a chalcid fly from North America (239628, exchange); (through Dr. E. G. Munroe) 2 moths from Australia (241298); (through Dr. G. E. Shewell) 4 picture-wing flies, paratypes, from the U.S. (240060); (through Dr. J. R. Vockeroth) 15 flies from Canada, England, and North Carolina, including holotype, allotype, and 2 paratypes (238657, 238687). *National Museum of Canada:* (Through Dr. E. L. Bousfield) gorgonian (237630); (through Dr. Arthur H. Clarke, Jr.) 1,160 fresh-water and marine mollusks from Canada and the U.S. (239283, exchange).

Canal Zone Biological Area, Balboa, Canal Zone: 1,143 phanerogams, 73 grasses, and 70 ferns (237563).

Cancio, Leopoldo, Washington, D.C.: 1-peso piece issued in Argentina commemorating the 150th Anniversary of Independence (241304).

Canfield Fund, Smithsonian Institution: 6 minerals from worldwide localities (236625, 236626, 237164, 237393).

Capitol Medals, High Point, N.C.: (Through Token and Medal Society) bronze and silver medal dedicated to the State of Florida (241730).

Caplin, Mortimer M. (See Treasury, U.S. Department of the)

Carey, I. W. (See Carey, Mrs. Marian E.)

Carey, Mrs. Marian E. (deceased): (Through I. W. Carey) French Broché shawl (241727).

Caribbean Marine Biological Institute, Curacao, N. A.: (Through Dr. P. J. Roos) 2 sponges, 52 gorgonians, and 12 antipatharians (238877).

Carl, Mrs. G. C., Victoria, B.C., Canada: Amphipod (239539). (See also Provincial Museum)

Carmichael, Dr. Leonard, Washington, D.C.: Tennis racket, 19th century (239342).

Carmichael, Dr. and Mrs. Leonard, Washington, D.C.: Baby cap and shirt, ca. 1860, 2 children's petticoats, and a printed cotton comforter, 1887 (237233, 238998).

Carnegie Institution of Washington, D.C.: (Through Dr. M. A. Tuve) 1,800 plankton specimens (237787).

Carnegie Museum, Pittsburgh, Pa.: 3 tokens from the Richmond-Petersburg turnpike and a communion token from the First Reformed Presbyterian Church in Pennsylvania (239653).

Carpenter, Maj. and Mrs. Walter N., Springfield, Va.: 66 marine mollusks from the Maldives and the Seychelles (239752).

Carper, Mrs. Carol Eve, College Park, Md.: Wad cutter and base, powder measure, and commercial shot bag (240136).

Carter, Mr. and Mrs. Edward P., Hyattsville, Md.: Silk dress and shawl of 1861 (239037).

Carter, Ruth N., Boston, Mass.: 2 blotters of the First National Bank of Boston depicting philatelic scenes (237234).

Carter, Mrs. Ruth Rammling, Washington, D.C.: Wedding dress worn in 1895 (236889).

Cartwright, O. L., Washington, D.C.: 7,500 scarab beetles, worldwide (241434).

Casanova, Richard (See Paleontological Research Laboratory)

Casper, Beth Kirkpatrick, Pico Rivera, Calif.: Tufted counterpane (242078).

Cassola, Dr. Fabio, Rome, Italy: 258 scarab beetles from Europe (239949, exchange).

Cate, Mr. and Mrs. Crawford N., Los Angeles, Calif.: 2 marine mollusks, including paratype, from the Philippines (238059, 238644).

Catholic University of America, Washington, D.C.: (Through Rev. Msgr. William J. McDonald) 2 X-ray tubes (240640).

Catts, E. Paul, Berkeley, Calif.: 31 rodent bot flies from California (241668).

Caudill, Mrs. Judd F., Louisville, Ky.: Safety cap, lunch pail, and set of reference books on mining in memory of donor's husband (237120).

Causey, Dr. Nell B., Fayetteville, Ark.: 418 centipedes from Canada, Mexico, and the U.S. (238680, 241100).

Cazier, Dr. Mont A., Portal, Ariz.: 10 scarab and chrysomelid beetles from Arizona (241667).

Central Bank of the Philippines, Manila, Philippines: (Through Amado R. Briñas) 5 coins and 7 notes issued by the Central Bank of the Philippines (241512).

Central Intelligence Agency, Washington, D.C.: (Through Allen W. Dulles) 14 Central Intelligence Agency medallions and ribbons (239191).

Central Marine Fisheries Research Institute, Mandapam Camp, Ramnad District, South India: (Through Dr. S. Jones) 4 snake mackerels from India (239779).

Central Public Library (See Whiting, Almond C.)

Centre Technique Forestier Tropical, Nogent-sur-Marne (Seine), France: (Through M. D. Normand) 147 wood specimens (236441, exchange).

Cervigón M., Fernando (See Estacion de Investigaciones Marinas de Margarita)

Chace, Dr. E. P. (See Natural History Museum)

Chamberlain Fund, Frances Lea, Smithsonian Institution: 2,165 marine mollusks from North Borneo, also a bag of beach sand (234957); 18 gems and minerals, worldwide (237163, 238971, 239029, 240240, 240539, 240989).

Chambersburg Engineering Co., Chambersburg, Pa.: (Through Eugene C. Clark, Jr.) model of a steam drop hammer (240677).

Chandler, Mrs. E. W., Jackson, Mich.: Card bearing Charles Guiteau's signature (236611).

Channel, Mrs. Warren (See Brown, Dr. William A., Jr.)

Chapin, Dr. Edward A., West Medway, Mass.: 42 ferns from Maryland and Virginia (241452).

Chapman, Dr. H. J. (See Underwater Research Unit)

Chas. Pfizer & Co., Inc., New York, N.Y.: (Through Alexander C. Finlay) 68 samples and pieces of equipment used in early experiments for production of antibiotics (239425).

Chase, Mrs. Agnes, Washington, D.C.: 38 miscellaneous grasses (237111).

Chase, Mr. and Mrs. Russell C., Lutherville, Md.: 1840 campaign banner, Harrison and Tyler (238189).

Chávez, Humberto (See Instituto Tecnologico de Veracruz)

Chen, S. F., New York, N.Y.: 42 fresh-water mollusks from Ethiopia (231150).

Chermette, A., Paris, France: Villiaumite from French Guinea (234583, exchange).

Chicago, University of, Chicago, Ill.: 12 phanerogams from Bolivia (237737); (through D. J. Fisher) morinite from the Hugo Mine, Keystone, S. Dak. (236567).

Chicago Historical Society, Chicago, Ill.: (Through Margaret Scriven) original contract with Horatio Hill for carrying U.S. mail on Route 159, Nov. 15, 1832 (236793).

Chicago Natural History Museum, Chicago, Ill.: 250 phanerogams, 3 grasses, and 18 ferns from Central America (212953, 213495, 238831, 239359, 240810); 13 prints of phanerogams, types, 612 phanerogams, 20 grasses, and 33 ferns from Mexico (239297, 240617, 240978); (through E. J. Olsen) fibrous magnetite and crocidolite from Canada (238356, exchange). (See also Defense, U.S. Department of)

Chicago Pneumatic Tool Co., New York, N.Y.: (Through G. J. Coffey) Little Giant and DC Permissible coal drills (241893).

Chicago Transit Authority, Chicago, Ill.: (Through H. L. Polland) 222 Chicago streetcar and cable railway drawings (240154).

Childress, Mrs. John, Steamboat Springs, Colo.: Hair wreath in frame (237674).

Chippendale, Dr. G. (See Australia, Government of)

Choppin, Sam (See Menke, Henry)

Christ, Dr. Edwin A., Vermillion, S. Dak.: 300 French precancel stamps (237339).

Christenson, L. W., Cleveland Heights, Ohio: 16,990 postage stamps, philatelic items, postal stationery, and 371 presentation albums of Japan, Manchukuo, and Ryukyu Islands (238748, 241106).

Christie, Lansdall K., New York, N.Y.: Miniature model of the Constitution (237711).

Cifre, Joseph S., Coral Gables, Fla.: Thompson projection mechanism, 1896 (238736).

Clain-Stefanelli, Mrs. Elvira, Washington, D.C.: 11 ancient Greek silver and 35 Greek and Roman bronze coins (239916).

Clain-Stefanelli, Dr. Vladimir, Washington, D.C.: 9 Spanish financial documents and other numismatic material and 25 miscellaneous foreign covers bearing postage stamps and meter impressions (240097, 240331).

Clark, Donovan, Washington, D.C.: Male Indian skull and lower jaw with extreme pathology from the Castro

Mound, Santa Clara Co., Calif. (238622).

Clark, Mrs. Ernest O., Martinsburg, W. Va.: Eastern milk snake (238582).

Clark, Eugene C., Jr. (See Chambersburg Engineering Co.)

Clark, George J. (See Reading Anthracite Co.)

Clark, John R. (See Interior, U.S. Department of the)

Clark, S. J., Washington, D.C.: Blickensderfer #8 typewriter (238761).

Clarke, Arthur C., Colombo, Ceylon: Cluster of approximately 1,000 silver rupees of 1702 (239761).

Clarke, Dr. Arthur H., Jr. (See Canada, Government of)

Clarke, Dr. J. F. Gates, Washington, D.C.: 5 eastern oysters from Bellingham, Whatcom Co., Wash., 94 moths from Maryland and Virginia, and a spittoon attributed to S. Bell and Sons of Strasburg, Va., ca. 1882–1900 (238982, 241274, 241437).

Clay, Dr. Theresa (See Parsons, Margaret)

Clements, D. Thomas (See United Nations Postal Administration)

Clench, Dr. William J. (See Harvard University)

Clingerman, Blaine C., Great Cacapon, W. Va.: Trilobite from Oriskany sandstone of West Virginia (239105).

Closs, Dr. Darcy, Porto Alegre, Brazil: (Through Ruth Todd) 158 Recent Foraminifera on slides from some beach faunas of Brazil (237499).

Cloud, Dr. Preston E., Jr. (See Interior, U.S. Department of the)

Cobb, Mrs. Josephine, Arlington, Va.: Washington cameo brooch, 1932 Washington Bicentennial pin, a Red Cross blood donor pin, and a shell pin (237888).

Cobb & Drew, Inc., Plymouth, Mass.: (Through Roy McLean) machine for making double-pointed tacks or staples (237600).

Cochran, Dr. Doris M., Washington, D.C.: 35 miscellaneous U.S. war service covers, 3 unused obsolete "penalty" envelopes, 28 unused V-Mail forms; alligator valise, ca. 1890; 2 pairs of spectacles with cases, pair of goggles, and a medicine case with 8 medicine bottles (236651, 239140, 241744).

Cocks, Dorothy (See New Canaan Historical Society)

Coddington, Mrs. William B., Geneseo, N.Y.: 34-star U.S. flag (237388).

Cody, W. J. (See Canada, Government of)

Coffey, G. J. (See Chicago Pneumatic Tool Co.)

Coffin, Mrs. Philip Owen, Hamilton, Mass.: 44 pieces of French porcelain, ca. 1855–59 (239149, 241792).

Cohen, Dr. Alvin (See Mellon Institute)

Cohen, Dr. Daniel M. (See Interior, U.S. Department of the)

Coin and Currency Institute, Inc., New York, N.Y.: (Through Token and Medal Society) 7 commemorative bronze medals (241439).

Coin Galleries, New York, N.Y.: Facsimiles of the Confederate dime and cent and a Spanish-American pillar-dollar, 1771 (239651).

Coin World, Sidney, Ohio: (Through Token and Medal Society) bronze and silverized medals commemorating the centennial of the War Between the States (241732).

Coker, Dr. R. E., Mayaguez, Puerto Rico: 288 specimens of plankton and copepods (215655).

Colburn Memorial Mineral Museum, Asheville, N.C.: (Through Mrs. Ida Lee Wilson) tourmaline from North Carolina (236397, exchange).

Colby, Susan, Washington, D.C.: Airmail cover of Panama (240336).

Cole, Harry C., Crestline, Ohio: Horse-drawn one-row planter (237951).

Cole, Mary G., Merrimac, Mass.: 2 early Massachusetts documents (240311).

Colegio de Post-Graduados, Chapingo, México: (Through Prof. Francisco Pacheco) 38 miscellaneous scarab beetles from Mexico (239784).

Colegio "La Salle," Cochabamba, Bolivia: (Through Dr. H. Adolfo Jiménez) 39 phanerogams and 6 ferns from Bolivia (228419).

Coleman, Dr. P. J. (See Western Australia, University of)

Colless, Dr. Donald H., Canberra, Australia: 6 flies, including 4 paratypes and 2 morphotypes, from Australia (236832).

Collette, Dr. Bruce B. (See Cornell University, and McGaha, Dr. Young John)

Collins, Alan (See Smithsonian Institution-Alan Collins Expedition to Libya)

Collins, Herbert R. (See Campbell, Robert H.)

Collins, J. A. (See Smithsonian Institution)

Colonial Coin Co., New York, N.Y.: Replicas of doubloon and pillar dollar struck in 1736 and 1760 (241514).

Colorado, University of, Boulder, Colo.: (Through Dr. Clarence J. McCoy, Jr.) 5 land snails from Colorado (240278); (through Dr. William A. Weber) 7 lichens from Arizona and New Mexico (224427, 240759); 28 lichens (233032, gift-exchange); 71 cryptogams and 72 lichens (238733, 241498, exchanges).

Colt Patent Fire Arms Co., Hartford, Conn.: (Through Richard G. Buzzell) slotting machine (238715).

Columbia University, New York, N.Y.: (Through Prof. Jan Schilt) geodetic transit and a telescope eyepiece (236206).

Commerce, U.S. Department of, Washington, D.C.: *Bureau of the Census:* (Through Anthony R. Berlinsky) polar planimeter (241591). *Coast and Geodetic Survey:* (Through Rear Adm. H. Arnold Karo) 100 algae with attached Foraminifera, Bryozoa, pelecypods, and brachiopods, dredged from the west coast of Florida (234521); (through Dr. Victor Lenzen) 2 pendulums (239023); (through Comdr. William E. Randall) 9 pieces of Multiplex photographic equipment (241808); (through Dr. Harris B. Stuart) 38 marine mollusks from off the Florida Keys (233960). *Maritime Administration:* 3 marine mechanical clocks (241743); (through M. C. Doty) model of hull section, N.S. *Savannah* (241892). *Patent Office:* Model of Fleming two-wheeled scraper, 1880 (237905); model of Ball drag scraper, 1879 (237906). *Weather Bureau:* (Through Christas Harmantas) 13 scientific instruments (240347); (through Robert Wright) meteorological base map (238497).

Comstock, Dr. John A., Del Mar, Calif.: 2 moths from Samoa (241431).

Conant, Dr. Kenneth J., Chevy Chase, Md.: Anonymous denier struck in the Abbey of Cluny in France during the 12th or early 13th century (239348).

Conant, Roger (See Tinkle, Dr. Donald W.)

Conger, Clement E. (See Brown, Dr. William A., Jr.)

Conger, Mrs. Hallie Ramsay (See Brown, Dr. William A., Jr.)

Conkin, Dr. James E., Louisville, Ky.: 32 arenaceous Foraminifera, including a holotype, from the Mississippian of the Coldwater shale of southern peninsula, Michigan (240992).

Conklin, L. H., New York, N.Y.: Beryl from the U.S.S.R. (238569, exchange).

Conley, William F., Knoxville, Tenn.: Old stone gold-crushing mill (237761).

Connecticut Agricultural Experiment Station, New Haven, Conn.: (Through Dr. James B. Kring) 346 miscellaneous insects, types, from the U.S. (241284).

Conover, J. T., Woods Hole, Mass.: 301 ferns from Okinawa (239299).

Conover, Dr. Robert J. (See Woods Hole Oceanographic Institution)

Conrad, Pearson, Lyndos, Isle of Rhodes, Greece: 102 Recent shells from the Tertiary of the Isle of Rhodes (237225).

Coons, Wg. Comdr. D. O., Rockville, Md.: 12 Canadian coins issued in 1960 and 1961 (240323).

Cooper, Dr. Byron N. (See Virginia Polytechnic Institute)

Cooper, Dr. G. Arthur, Washington, D.C.: 24 Recent brachiopods from Japan (238977).

Cooper, S. L., Washington, D.C.: Book of Briggs' patent embroidery transfers of the late 19th century (237316).

Copeland, T. P., Johnson City, Tenn.: 3,981 spring-tails from Tennessee (241297).

Copley Coin Co., Inc., Boston, Mass.: (Through Maurice M. Gould) restrike of the Massachusetts pattern halfpenny, 1776 (241511).

Cordry, Mrs. Dorothy Mann (See Hitchcock, Frank H.)

Core, Harold A. (See New York State University College of Forestry)

Corkum, Kenneth C., Grand Isle, La.: Holotype and paratype of a trematode worm from a fish (236929).

Corn, Mrs. Lawrence H., Annandale, Va.: 2 dresses for child of the period 1906–08 (236252).

Corn States Laboratories, Inc., Omaha, Nebr.: (Through Dr. L. T. Jessen) 13 veterinary antibiotics (241113).

Cornell University, Ithaca, N.Y.: (Through Dr. Edward C. Raney) 14 percid fishes from South Carolina (237514, exchange); (through Drs. Edward C. Raney and Bruce B. Collette) 2,500 fishes, fresh-water and marine, collected in Cuba by Dr. Collette, and 96 marine invertebrates (237614, exchange). *Bailey Hortorium:* (Through Dr. H. E. Moore, Jr.) 3 photographs of phanerogams (238726, exchange).

Cornman, Dr. Ivor, Washington, D.C.: Painting of Theodore Roosevelt, Cadwell engraving of Abraham Lincoln, and an embroidered Biblical scene of Mary and Thomas at the tomb of Jesus (238743).

Corothie, Harry (See University de los Andes)

Correll, Dr. Donovan S. (See Texas Research Foundation)

Coscarón, Dr. Sixto, Buenos Aires, Argentina: 21 flies from South and Central America (238005, exchange).

Cosminsky, Philip, Falls Church, Va.: 7 minerals from Little Rock, Ark. (236559, exchange).

Costlow, Dr. John D., Jr. (See Duke University)

Council of the Borough of Bideford, Bideford, North Devon, England: 2 kiln wasters of sgraffito pottery and 2 fragments of glazed tiles (236782).

Covel, Mr. and Mrs. Thomas E., Washington, D.C.: 2 Victorian marble mantelpieces (241781).

Cowan, Dr. I. McT. (See British Columbia, University of)

Cowgill, Mrs. A. Hubert (See Cowgill, Mrs. Alice)

Cowgill, Mrs. Alice (deceased): (Through Mrs. A. Hubert Cowgill) overshot coverlet of the early 19th century (239413).

Crabill, Dr. Ralph E., Jr., Washington, D.C.: 171 miscellaneous insects from Missouri (238682).

Cramer, Dr. Howard R., Atlanta, Ga.: 2 blastoids, including topotype, from Mississippi (237307). (See also Emory University)

Crane, Prof. H. P. (See Michigan, University of)

Crawford, Earl Frazier (See Hadzsits, George Depue)

Crawford, Mrs. Earl Frazier (See Hadzsits, George Depue)

Crawley, W. D., Washington, D.C.: Fish from South Carolina (237363).

Cristal, Mrs. Elizabeth Johnson, Manchester, N.H.: 38 pieces of sculpture, small collection of clothing items and 7 miscellaneous objects associated with donor's aunt, Mrs. Adelaide Johnson (241839).

Crofoot, H. K., Moravia, N.Y.: 12 fractional Scrip issues of the Civil War period (238164).

Crosby, J. P. (See Lapointe Machine Tool Co.)

Cross, Dr. Frank B. (See Kansas, University of)

Crosskey, R. W., London, S.W., England: 9 blackflies from Africa (238125).

Croston, John, Silver Spring, Md.: Cobaltite from Agaunico Mine, Ontario, Canada (240238).

Crown Agents, Washington, D.C.: (Through A. J. E. Davis) 300 mint postage stamps of the British Commonwealth (239925).

Cruickshank, Allan D., Rockledge, Fla.: Seaside sparrow (237973).

Cuatrecasas, Dr. José, Washington, D.C.: phanerogams from Venezuela (239643).

Cuello, Dr. Juan, Montevideo, Uruguay: 2 birds from Uruguay (237577).

Cumbie, Dr. Billy G., Lubbock, Tex.: 225 microscope slides of wood (239182).

Cummins, Mrs. Joe, Washington, D.C.: Footed basketry jar (236913).

Cuomo, Mr. and Mrs. Anthony, Washington, D.C.: Pottery jar from Iran (238966).

Cureton, Forrest E., II, Stockton, Calif.: 2 glaucophane specimens from San Benito Co., Calif., and 7 tunnellites from Boron, Calif. (236845, 237615, exchanges).

Currie, Richard R., Johannesburg, S. Africa: 4 crabs and a crab claw, also 2 scorpions (235516).

Curry, Henry L., III, Charlottesville, Va.: Microscope slide of marine diatoms from Nassau, Bahamas (241168).

Curry, R., Jr., Frackville, Pa.: Block of 4 U.S. stamps (Scott #1031A) precanceled Frackville, Pa. (236656).

Curtin, Capt. Thomas J. (See Defense, U.S. Department of)

Curtiss-Wright Corp., Washington, D.C.: (Through W. W. Eckard) 2 cylinder head castings (236951).

Cushman, Rebecca Waddell, Asheville, N.C.: Sampler made by Sarah Bailey in 1839 (238996).

Custis, Eleanor, Washington, D.C.: 50 items of costume material of the early 20th century (238834).

Cutter, Albert R., Santa Barbara, Calif.: 2 citrines from Brazil (241265).

Cypert, Eugene (See Interior, U.S. Department of the)

Czechoslovak Academy of Sciences, Brno, Czechoslovakia: (Through Dr. Ir. J. Pelikán) 25 thrips from Czechoslovakia (239938, exchange).

Dadswell, Dr. H. E. (See Australia, Government of)

Daily, Dr. Brian (See Australia, Government of)

Daley, Laurence B. (See Baltimore, City of)

Dalquest, Dr. Walter W. (See Interior, U.S. Department of the)

Daly, Prof. H. V., Berkeley, Calif.: 2 chalcid flies (240265).

Dare, Lt. Col. Beatrice M., Spokane, Wash.: 15 U.S. Army distinctive insignia (241300).

Darling, Thomas, Jr., Washington, D.C.: 2 phanerogams from Florida and 3 ferns from Maryland and New York (238724, 239300).

Davenport, Dr. Demarest (See California, University of)

Davey, Walter C., Harlow, Essex, England: 20 lots of pottery sherds excavated from 17th-century kiln sites in neighborhood of Harlow (236785).

Davidson, J. V., Coral Gables, Fla.: McKinley campaign badge (239971).

Davidson, Jesse T. (See Piedmont Label Co.)

Davies, Donna M., Key West, Fla.: American Indian silver bracelet (224740).

Davies, Mrs. John Anthony, Dickerson, Md.: 110 fresh-water mollusks from Canada (239286).

Davis, A. J. E. (See Crown Agents)

Davis, Mrs. Brooks, Tucson, Ariz.: 5 minerals from Mexico (236558).

Davis, Dr. C. C., Cleveland, Ohio: 10 chalcid egg-parasites from the U.S. (240667).

Davis, C. J. (See Hawaii Department of Agriculture)

Davis, Mrs. Elizabeth, Tampa, Fla.: Wool sampler of the 19th century (239390).

Davis, Frank, Latrobe, Pa.: Safety lamp (241799).

Davis, Harry T. (See North Carolina State Museum)

Davis, Robert, Athens, Ga.: 3 slides of mites, including holotype and paratypes, from North America (238659).

Dawson, C. E., Ocean Springs, Miss.: 118 fishes from the Persian Gulf (237160). (See also Florida State Board of Conservation and Gulf Coast Research Laboratory)

DeBach, Dr. Paul, Riverside, Calif.: 4 chalcid flies, cotypes, from Japan (240984).

de Beaumont, Dr. J. (See Musée Zoologique)

DeButts, Harry A. (See Southern Railway System)

Defense, U.S. Department of: *Department of the Air Force:* 70 U.S. Air Force uniforms and insignia (241426); (through Capt. Thomas J. Curtin) 5 rodents from Turkey (235778, 237868); (through Maj. T. H. Poe) 3 snakes from Turkey collected by Maj. Poe (236684); (through Lt. Eldon L. Reeves) burrowing lizard from Morocco (236908); (through Maj. Gen. William S. Stone) 57 U.S. Air Force Cadet uniforms and accessories (240134). *U.S. Air Forces in Europe:* (Through Maj. John M. Geary) 2,900 land and fresh-water snails from France, Italy, Libya, Morocco, and Turkey, also 1 lot of land isopod crustaceans and an insect from Morocco (228206). *Department of the Army:* 18 ceramic tool tips, tool holders, steel shaft, and steel chips, grenade launcher, and a bazooka of World War II (236800, 239662, 240904); (through Col. Robert E. McCabe) 65 postage stamps, postal cards, and letter sheets of the Ryukyu Islands (236810); (through Maj. Vernon J. Tipton) 517 mammals from Panama (237215); (through Lt. Col. Robert Traub) 10,000 laelaptid mites from Borneo, Malaya, and Thailand (236779). *Army Medical Research Unit:* (Through Dr. H. Elliott McClure) 883 miscellaneous insects, 6 leeches, and 2 isopods from Malaya (240987). *Army Ordnance:* U.S. 75 mm projectile fuze from collection found at Regensburg and Hillerslieben, Germany, after World War II (241581). *Ballistic Research Laboratories:* 5 tourmaline crystals from Madagascar (237570). *Engineer Research and Development Laboratories:* Bomb shell (240314).

Department of the Navy: 281 turbine blades (236804); (through Capt. Charles E. Briner) 35 surplus Naval items from Belleview Annex, Wash., D.C. (236599); (through Rear Adm. E. M. Eller) CXAM–1 radar set used by the Navy during the 1940's (241176). *Hydrographic Office:* (Through James A. Bruce) seasnake from the strait between the Gulf of Omar and the Persian Gulf, 10 copepods, and 17 deep-sea fishes and a squid collected on a cruise of the USS *Rehoboth* (236551, 239675, 240866); (through William Gladfelter) 260 fishes from the Straits of Malacca, aquatic insects, 24 mollusks, and crustacea (240867); (through Dr. Kenneth W. Kaye) fish from Bandar Shahpur, Iran (237226); (through William H. Littlewood) 360 marine invertebrates collected on Operation-Deepfreeze V, 148 mollusks, 1 lot of brachiopods, 2 lots of Foraminifera, 3 lots of rocks, and algae (226935); (through Phillip Seelinger) 96 copepods (219428); (through Robert B. Starr) 331 marine invertebrates, 7 lots of mollusks, 1 lot of brachiopods, and a lot of Foraminifera from the western Arctic collected with Deep Freeze IV material, 1958 (237690). *Naval Medical Research Units:* (Through Chicago Natural History Museum) 202 mammals from NAMRU3, Cairo, Egypt (241577); (through Dr. Robert E. Kuntz) 10 crabs and a grackle from East Pakistan (236431, 236631, 238409); (through Dr. Robert E. Kuntz and Lt. W. H. Wells) 1,249 miscellaneous fishes from Taiwan (237042).

Naval Observatory: (Through Capt. A. W. Slayden) 3 clocks (240411). *Naval Weapons Plant:* 34 pieces of optical equipment, 11 push broaches, depth gage micrometer and a drilling jig, and 17 tools (237036, 237903, 241187, 241589); *Office of the Chief of Naval Operations:* (Through Rear Adm. E. M. Eller, Dr. D. O. McCoy, and E. H. Schuster) radio sextant AN/SAN–1 (229051). *Office of Naval Research:* (Through Dr. Harry Hoogstraal) 2 ticks, holotype and allotype, from the Belgian Congo (238694). *Preventive Medicine Unit:* (Through Comdr. Leslie W. Teller) 15 land snails from Italy (239426).

Degener, Dr. Otto, Waialua, Oahu, Hawaii: 313 phanerogams, 16 grasses, 36 ferns, 3 cryptogams, and a blenny from Hawaii (235795, 236580, 238787, 241654).

DeGurse, John, Jr. (See Smithsonian Institution)

Deichmann, Dr. Elisabeth (See Harvard University)

Deignan, Herbert G., Geneva, Switzerland: Eagle from Korea and 14 miscellaneous birds from Thailand (236629, 240282).

Deischer, Prof. Claude K. (See Pennsylvania, University of)

Deitsch, Peter H. (See Turner, John B.)

Dekle, Dr. George W., Gainesville, Fla.: Leech (213385).

Delaware, State of, Dover, Del.: *Board of Game and Fish Commissioners:* (Through Dr. Jay L. Harmic) skull of a coyote from Maryland (235724).

Delaware County Historical Society, Manchester, Iowa: (Through Homer C. Platt) sterling silver "Uncle Sam" sesquicentennial commemorative medal bearing serial No. 1 (238899).

Delchamps, C. E., Miami, Fla.: 3 ferns from Costa Rica and Florida (237730, 239352).

Delhi, University of, Delhi, India: (Through Dr. T. R. Seshadri) 14 lichens from India (233881).

Del Noce, Aldo, New York, N.Y.: 25-percent share of a block of four 2-cent "Lake Shade" Panama Pacific Exposition issue, 1913 (240130).

Del Ponte, Dr. Eduardo (See Instituto Nacional de Microbiologia)

Demaree, Delzie, Hot Springs, Ark.: 18 fresh-water mussels from Arkansas and 46 phanerogams (237972, 241263).

de Moor, P. P. (See Transvaal Museum)

Denman, Mrs. Richard W., Arlington, Va.: Gouldian finch (241717).

Dennison, Dr. D. M. (See Michigan, University of)

DePauw University, Greencastle, Ind.: (Through Dr. Winona H. Welch) 18 ferns from Panama (240695).

Derby, Charles H. P., Rahway, N.J.: 12 dolls, 1 shrine, and a stand with dolls and phallic symbol (236770).

des Abbayes, Prof. H. (See Université de Rennes)

Deutsche Bundesbank, Frankfurt, Germany: 2 20-DM notes issued by donor, 1961, and 2 100-mark notes issued by the Federal Republic of Germany in 1962 (239349, 241177).

Devore, Mrs. Daniel B. (deceased): (Through George E. Hamilton, Jr. and L. W. Holbrook) 6 costume items of the late 19th and early 20th centuries (236476).

Dewey, Hon. Charles S., Washington, D.C.: Japanese embroidery of the late 19th century (236974).

DeWitt, Mrs. Donald S. (See Spalding, Francis O.)

Dews, Jule N., Frederick, Md.: Restruck T. Hobron token of Hawaii (236614).

Dexter, Dr. Ralph W., Kent, Ohio: 7 barnacles and a cumacean (232350).

Dick, Mrs. Myvanwy (See Harvard University)

Dickinson, John A., Bethesda, Md.: Silver spatula from near Anchorage, Alaska (241757).

Dickinson, Mrs. John A., Bethesda, Md.: 7 items of costume accessories of the late 19th century, 3 Tlinkit Indian objects, and a certificate of enlistment of 1856 (235872, 238119, 240903).

Diesel Engine Sales, Inc., St. Augustine, Fla.: (Through L. C. Ringhaver) model of shrimp trawler *George R.* (240155).

Dillard, Mrs. Rosalie R. (See Rubinton, Col. Samuel)

Director-General of Posts (See Monaco, Government of)

District of Columbia Public Schools, *Dunbar High School,* Washington, D.C.: (Through Stephen Hopkins) model of an engine, boiler, and generator (240638).

Dockrill, Arthur (See Michigan, University of)

Dodson, Calaway H., St. Louis, Mo.: 18 miscellaneous insects from Ecuador (241922).

Dominion Museum, Wellington, New Zealand: (Through Dr. Terence Barrow) 13 Maori items (240034, exchange).

Donal, J. S., Jr. (See Radio Corporation of America)

Donnelly, Dr. Thomas, Houston, Tex.: Paratype of a dragonfly from Texas (241299).

Donner, William, New York, N.Y.: 4 drachmas of Massalia, Gaul, struck in the style characteristic for the 1st century, B.C. (239650).

Dosse, Mr. and Mrs. Adolph F., Fontana, Calif.: 62 minerals from various localities (237835, exchange).

Doster, Alexis, Washington, D.C.: Ladder-back chair (236786).

Doty, M. C. (See Commerce, U.S. Department of)

Doty, Dr. Maxwell S., Honolulu, Hawaii: 76 cryptogams (237732).

Doughty, Kenneth, Willis Wharf, Va.: Mammoth tooth from Pleistocene of Virginia collected by donor (236925).

Douglas, B. M., Washington, D.C.: U.S. pattern half-dollar, 1916, and 2 notes of Campo Bello and La Vache Island (237132, 241178).

Douglas, Fred L., Washington, D.C.: Otter from Florida (239330).

Douglas, Thomas C. (See Mettler Instrument Corp.)

Dove, Sheriff William C., Malta, Mont.: Indian skeleton from Montana (241253).

Drake, Dr. Carl J., Washington, D.C.: 22 miscellaneous foreign covers, picture post card, postal card, a foreign official free frank, 6 spittle bugs, including 2 allotypes and 4 paratypes, from southwestern U.S. (240342, 241669).

Dreisbach, R. R., Midland, Mich.: 8 spider wasps from Europe (238656, exchange).

Dreyfus-Barney, Mrs. Laura, Washington, D.C.: 2 Victorian chairs, ca. 1868 (238991).

Dubilier, William, New Rochelle, N.Y.: Photoelectric cell designed by Dr. Falkenthal (240292).

Duc, Nguyen Phu (See Viet Nam, Embassy of)

Dugand, Dr. Armando, Barranquilla, Colombia: 130 phanerogams and 6 grasses from Colombia (236701).

Duggan, Mrs. W. S., Everett, Wash.: 57 marine and land mollusks from Washington, also 4 brachiopods (240398, 240965).

Duke, Dr. James (See Missouri Botanical Garden)

Duke University, Durham, N.C.: (Through Dr. Lewis Anderson) 98 bryophytes (238732, exchange); (through Dr. D. A. Livingstone) 309 microscope slides of pollen (238727, exchange). *Marine Laboratory:* (Through Dr. John D. Costlow, Jr.) 2 crabs (240206).

Dulles, Allen W. (See Central Intelligence Agency)

Duncanson, Isabelle F., New Iberia, La.: 6 silver tablespoons (240449).

Dunn, Mrs. Arthur Wallace, Washington, D.C.: 11 U.S. and foreign medals and an insignia, and 24 vermeil dessert forks and spoons presented in memory of Mrs. Fredric Duncan McKenney (238468, 238990).

Dunn, Mr. and Mrs. Arthur Wallace, Jr., Washington, D.C.: Silver tea-set made in China ca. 1890, given in memory of Lillian Lash and Arthur Wallace Dunn (241778).

du Pont, Willis H., Wilmington, Del.: 860 Russian coins and medals (240108).

Dutro, Dr. J. T. (See Interior, U.S. Department of the)

Dyar, Dr. Edna (address unknown): (Through Mrs. Elizabeth L. Wahrenbrock) Windsor rocking chair (239294).

Dye, Dr. Daniel Sheets, Colora, Md.: 9 butterflies from China (239129).

E. Leitz, Inc., New York, N.Y.: (Through William Mann) Leica M3 camera with summilux lens and light meter (238385).

E. Weyhe, Inc. (See Gordon, Albert H.)

East African Marine Fisheries Research Organization, Zanzibar, Africa: (Through Dr. J. F. C. Morgans) 5 fishes from Africa (228670, exchange).

Eastern Kentucky State College, Richmond, Ky.: (Through Prof. T. A. Hutto) 2 ferns from Kentucky (240015).

Eastop, Dr. V. F. (See Great Britain, Government of)

Ebeling, Dr. Alfred W. (See Yale University)

Eberlein, G. Donald (See Interior, U.S. Department of the)

Ebert, Earl E. (See California Department of Fish and Game)

Eckard, W. W. (See Curtiss-Wright Corp.)

Eckstrom, C. W. (See Eli Lilly and Co.)

Eddy, H. L. (See Association of American Railroads)

Edelstein, Sidney, New York, N.Y.: 4 chemical samples (241195).

Edmunds, Dr. George F., Jr., Salt Lake City, Utah: 185 may flies from Utah (238822).

Edmunds, Malcolm, Oxford, England: 3 marine mollusks from Port Royal, Jamaica (241773).

Edson, Merritt A., Jr., Washington, D.C.: Copy book marked "Admiral Graves Rent Book, 1797" containing a handwritten copy of "A Treatise of Naval Evolutions," and a builder's block model sailing yacht (241837, 241912).

Edwards, John M., Shadyside, Md.: Long-tailed shrew from Maryland (236636).

Edwards, Mrs. Julia B., Washington, D.C.: Powder horn (241443).

Edwards, Mrs. Llewellyn N., Glen Echo, Md.: 2 prints of bridges and 12 maps engraved by John Cary between 1799 and 1811 (239364, 241898).

Edwards, Dr. R. L., Woods Hole, Mass.: Holotype and allotype of 2 bird lice from South Carolina (240263).

Edwards, Col. William Waller, Washington, D.C.: Basket from Montezuma Co., Colo. (238967).

Ehrmann, Martin L., Beverly Hills, Calif.: Andalusite and 4 staurolites from Brazil (238105, 240245).

Eichner, L. C., Clifton, N.J.: Collection of hand and knurling tools, 19th century (236803, 240908).

Einhorn, Nathan R. (See Library of Congress and Library of Congress Stamp Club)

Eklund, Dr. Carl R., Bethesda, Md.: 3 bird skins from Greenland (240283).

El-Chichini, Saad (See United Arab Republic, Government of)

Elder, Robert A., Jr., Washington, D.C.: 230 phanerogams and 26 ferns from Wisconsin collected by donor (236590).

Elgert, Gerald G., Baltimore, Md.: 121 reptiles and amphibians from Maryland, North Carolina, and West Virginia collected by donor (237013).

Eli Lilly and Co., Indianapolis, Ind.: (Through C. W. Eckstrom) 12 display packages of Iletin and antibiotic products (238465, 241449).

Eller, Rear Adm. E. M. (See Defense, U.S. Department of)

Ellicott, Mrs. John, Alexandria, Va.: Evening grosbeak (240739).

Elliott, James W. (See Taylor & Taylor, Printers)

Ellis, Earl L. (See Post Office Department)

Ellis, Mrs. Sidney W., Washington, D.C.: Colin Kennedy receiver and amplifier with speaker (239316).

Emerson, Dr. William K. (See American Museum of Natural History)

Emielity, Joseph G. (See Milwaukee Public Museum)

Emory University, Atlanta, Ga.: (Through Prof. Howard R. Cramer) 230 invertebrate fossils and plants from the Paleozoic of Georgia (239233).

Endrödi, Dr. Sebö, Gödöllö, Hungary: 195 scarab beetles from Africa and Europe (240052, exchange). (See also Naturwissenschaftliches Museum)

Engelhardt, Dr. Donald W. (See Pan American Petroleum Corp.)

Engelhardt, Dr. Wolfgang, Munich, Germany: 7 paratypes of centipedes from Africa, Asia, Europe, and South America (239722, exchange).

Engineering Societies Library, New York, N.Y.: Color lithograph of west view of Britannia Tubular and Menai Suspension Bridges (240551); (through Ralph H. Phelps) surveyor's demicircle (241593).

English, John T., West Memphis, Tenn.: 33 siderite concretions from Memphis, Tenn. (239504).

Enright, J. T., La Jolla, Calif.: 31 polychaete worms, 8 cumaceans, and 298 amphipods (238251).

Entomological Institute, Sapporo, Japan: 10 small moths from Japan (237010, gift-exchange).

Enzer, Milton M. (See Yale & Towne Manufacturing Co.)

Erdman, Donald S., Lajas, Puerto Rico: (Through Dr. John E. Randall) fish from Puerto Rico (239474).

Eresch, Mrs. J. C., Beloit, Kans.: 6 political campaign badges presented in memory of donor's husband (239186).

Erwin, Mrs. Henry P., Warrenton, Va.: Congressional armchair (240555).

Escuela Agricola Panamericana, Tegucigalpa, Honduras: 50 grasses from Honduras (238832); (through Sr. Antonio Molina) 80 ferns from Honduras (240013).

Estacion de Investigaciones Marinas de Margarita, Punta de Piedras, Nueva Esparta, Venezuela: (Through Fernando Cervigón M.) 10 fishes from Margarita Island, off Venezuela (236808).

Evans, Dr. Clifford, Jr., and Meggers, Dr. Betty J., Washington, D.C.: 290 archeological specimens from Marajó, Mexiana, and Caviana Islands (241855). (See also Porras G., Padre Pedro I., and Walter, H. V.)

Evans, Dr. Howard E., Cambridge, Mass.: 3 wasps, holotype and allotype, from Mexico (239126, 240053). (See also Harvard University)

Evans, Mrs. Joshua, Jr., Washington, D.C.: 22 American and American Indian objects (236918).

Evans, William, Washington, D.C.: 7 moths, including paratype, from California (240054).

Everitt, Dean W. L. (See Illinois, University of)

Ewen, Dr. A. B., Saskatoon, Saskatchewan, Canada: 100 midges, including paratypes of 8 new species, from Canada, Europe, and South America (238669).

Eyerdam, Walter J., Seattle, Wash.: 10 marine mollusks from Easter Island, also 12 caddis-fly larvae (239546).

Fairchild, Dr. G. B., Balboa Heights, Canal Zone: 20 horseflies from the Neotropical region (240673).

Falconi, Mrs. Eunice, Roswell, N. Mex.: Early memorabilia from Amateur Radio Station W5ZA (238755).

Fallen, Lenore, Falls Church, Va.: "Pineapple" applique quilt of the mid-19th century (237884).

Fantastic Gardens, Miami, Fla.: (Through Mrs. R. G. Wilson) 2 cultivated ferns (240394).

Farley, Hon. James A., New York, N.Y.: 87 first-day covers, First Official Missile Mail cover, and unused post card of Israel (240112).

Farr, Thomas H., Kingston, Jamaica, B.W.I.: 12 beetles, including 3 holotypes and 6 paratypes, from Jamaica (238239). (See also Institute of Jamaica)

Farret-Jentink, Th., Owen Sound, Ontario, Canada: 31 marine mollusks from Fiji and South Africa (213327).

Fast, Ralph R. (See Kiln Club of Washington)

Faure, Dr. J. C. (See South Africa, Republic of)

Feeney, Walter B., Irvington, N.J.: 3 first-flight covers, Cristobal, Canal Zone to Mollendo, Peru (239312).

Fehlmann, H. A. (See Stanford University)

Felch, Lauren L., Boston, Mass.: Medal commemorating Napoleon's stay at Schönbrunn and the victory at Wertingen, 1805 (239646).

Fellows Gear Shaper Co., Springfield, Vt.: (Through Henry B. Flinn) 7 gears (241906).

Fenimore, Watson (See Atomic Energy Commission)

Fennell, Chester M., San Francisco, Calif.: Sea eagle, bean goose, and a pied wagtail (236665).

Ferlet, L. M., Jr., San Antonio, Tex.: 58 medusae (235531).

Ferreyra, Dr. Ramón (See Museo de Historia Natural "Javier Prado")

Field, Clark, Tulsa, Okla.: Cherokee basket (241754).

Field, W. S. (See Koehler Manufacturing Co.)

Filer's, Redlands, Calif.: 2 kossmatites from Yugoslavia (241267), exchange).

Finch, Prof. James K., New York, N.Y.: 45 prints of prominent engineers (241841).

Finks, Dr. Robert M., Flushing, N.Y.: 20 invertebrate fossils from the Ordovician of eastern New York (240365, exchange).

Finlay, Alexander C. (See Chas. Pfizer & Co., Inc.)

Finnie, Mrs. Haldeman (See Spalding, Francis O.)

Fireman, Dr. E. L. (See Smithsonian Institution)

First Manassas Corp., Arlington, Va.: (Through Col. H. D. Kehm) brass medal commemorating the re-enactment of the first battles of Manassas (240682).

First New Haven National Bank, New Haven, Conn.: (Through William F. Hasse, Jr.) steel engraving plate of the City Bank of New Haven, ca. 1855 (239915).

Fish-Schurman Corp. (See JENA^{er} Glaswerk Schott & Gen.)

Fisher, Maj. C. C. (See Amos, Howard, Raymond, G. J., Schultz, Elizabeth J., Sherwood, Delbert, and Smiley, Hugh L.)

Fisher, D. J. (See Chicago, University of)

FitzGerald, J. Warren, Dallas, Tex.: 289 miscellaneous beetles (237760).

Fleming, Hartley G., Pittsburgh, Pa.: Pair of beaded Ojibwa moccasins from Bear Island, Ontario, Canada (239121).

Flewwellin, W. A., Arlington, Calif.: Boulet indicator (236509).

Flinn, Henry B. (See Fellows Gear Shaper Co.)

Flint, Dr. O. S., Washington, D.C.: 1,050 caddis flies and stone flies from east North America (241673).

Florence, University of, Florence, Italy: (Through Prof. Alberto M. Simonetta) 18 skeletons, skulls of Italian mammals, and 25 birds (241636, exchange).

Florida, State of, *Department of Agriculture*, Winter Haven, Fla.: (Through Harry C. Burnett) lichen (240793); (through Dr. R. E. Woodruff) 145 scarab beetles from Florida (238692).

Florida, University of, Gainesville, Fla.: 92 phanerogams, 3 grasses, and 7 ferns from Florida (237219, gift-exchange); grass from Florida and 3 sheets of cultivated phanerogams from Florida (236937, 241169).

Florida State Board of Conservation, St. Petersburg, Fla.: (Through C. E. Dawson) 2 fishes (238896); (through Dr. Robert F. Hutton) isopod and 1,001 copepods (230052); (through Andrew J. McErlean) 2 sharks from off the west coast of Florida (237094); (through Andrew J. McErlean and Dr. Victor G. Springer) fish from the lower west coast of Florida (236253).

Florida State Board of Health, Vero Beach, Fla.: 5 midges, including 3 holotypes and 2 paratypes, from Florida (238137); (through Mrs. Nina Branch) 20 flies from North America (240664).

Florida State University, Tallahassee, Fla.: 242 phanerogams, 34 grasses, 9 cryptogams, and 1 fern from Florida (237300, 238371, 240303, exchanges); (through Dr. Harry W. Wells) 3 fishes from North Carolina (239817).

Flower, Dr. Rousseau H., Socorro, N. Mex.: 32 corals and 10 slides of corals from the Ordovician of New Mexico and Texas, and 10 brachiopods from the Lower Ordovician of Logan Canyon, Utah (238113, 238633).

Floyd, Mrs. J. L., Corpus Christi, Tex.: (Through Arnon L. Mehring) 11 marine gastropods from Corpus Christi, Tex. (238643).

Fluke, Kathi, Wormleysburg, Pa.: Horseshoe crab (239777).

Fobes, Edwin L., Omaha, Nebr.: Marine mollusk from New Caledonia (236892, exchange).

Folinsbee, Prof. R. E. (See Alberta, University of)

Follmann, Dr. Gerhard (See Universidad de Chile)

Foote, Dr. B. A., Kent, Ohio: Fly, paratype, from Idaho (240737).

Forattini, Dr. Oswaldo P., São Paulo, Brazil: 19 mosquitoes, cotypes, from Brazil (240986).

Forbes, Audrey, Washington, D.C.: Cacheted first-day cover bearing the United Nations International Monetary Fund stamps (236794).

Ford, George H., Jr., Washington, D.C.: 21 laboratory test tubes (240684).

Ford, John J., Jr., Rockville Centre, L.I., N.Y.: Petition concerning the formation of the Republican Unit Bank Note Co. and the "Unit System" of engraving as a preventive method against counterfeiting written by Waterman Lilly Ormsby in 1870 (240325).

Ford, Dr. T. D., Leicester, England: 2 casts from the Pre-Cambrian of Charnwood Forest (238634).

Ford Instrument Co., Long Island City, N.Y.: (Through S. H. McAloney) ball and disc integrator (239018).

Forest Department, Sandakan, North Borneo: (Through Dr. W. Meijer) 178 wood samples (235608, exchange).

Forrest, Mrs. Leon, Washington, D.C.: Silk hat of 1860 (240505).

Forsell, M. J., Seattle, Wash.: 568 aphids from Washington State (239867).

Fort Ligonier Memorial Foundation, Ligonier, Pa.: (Through Jacob Grimm) pair of shoes and bayonet frog excavated from site of Fort Ligonier (241428).

Fosberg, Dr. F. R., Falls Church, Va.: 19 shrimps and 66 ferns from the Ryukyu Islands (235588, 238730). (See also Interior, U.S. Department of)

Fouarge, Dr. Joseph (See Laboratoire Forestier de l'Etat)

Fowle, Haywood, Miami, Fla.: Lot of tile fragments, 19th century, salvaged from Andros Island, Bahamas, B.W.I. (239142).

Fox, Dr. Irving, San Juan, Puerto Rico: 5 land snails from Santurce, Puerto Rico (239329).

Franclemont, Dr. John, Ithaca, N.Y.: 11 scorpions and centipedes from the U.S. (239912).

Franke & Heidecke, Braunschweig, West Germany: (Through Mrs. Margarete Wolf) 8 items of Rollei photographic equipment (241890).

Franklin Institute, Philadelphia, Pa.: (Through Mrs. Robert N. Yarnall) oil engine, lathe, milling machine, and reproduction of a reaper (236710).

Frederick, Doris (See Friederich, Roberto)

Fredrich, Leon A., Portland, Oreg.: 3 black-footed albatross skeletons (237575).

Freedman, Isaac, Brooklyn, N.Y.: Fife, (241780).

Freie Universität Berlin, Berlin-Dahlem, Germany: *Geologisch-Paläontologisches Institut:* (Through Dr. Walter G. Kuhne) 10 slides of graptolites from the Ordovician of Germany and 4 trilobites from the Mississippian of Belgium (229775, exchange).

French, Mrs. Carl C., Winchester, Mass.: Painted buckskin pouch from Chiricahua Apache Chief Rattlesnake during the war of 1886 (241758).

Frey, Dr. Richard (See Museum Zoologicum Universitatis)

Frick, Dr. K. E. (See Agriculture, U.S. Department of)

Frick Company, Waynesboro, Pa.: (Through Terry Mitchell) time clock and model of a cotton gin manufactured before 1884 (234522, 239135).

Fried, Dr. Bernard, Atlanta, Ga.: 11 fresh-water gastropods from Georgia (241723).

Fried, Leon A., Washington, D.C.: Embroidered shawl, 1927 (241728).

Friederich, Roberto (deceased): (Through Doris Frederick) 90 land mollusks from Cuba (241774).

Friedman, Gerald M. (See Pan American Petroleum Corp.)

Friedmann, Dr. Herbert, Los Angeles, Calif.: 3 aluminum coins of 5, 2, and 1 francs from New Caledonia (237582).

Fritz, Mrs. Pauline G., Asbury Park, N.J.: Mexican painted lacquered tray (236914).

Frolander, Dr. Herbert F., Corvallis, Oreg.: 103 copepods (230309).

Frondel, Dr. Clifford (See Harvard University)

Fruhauf, Aline, Chevy Chase, Md.: Woodcut, "Spider Woman," by donor (241103).

Fry, Mrs. C. Luther, Rochester, N.Y.: Crystal cross, 19th century, formerly associated with the Benjamin B. Comegys family (241401).

Frye, Andrew W., Woodstock, Va.: Shovel plow (240816).

Fuld, Dr. George, Baltimore, Md.: 7 commemorative medals issued by the Educoin Co. in 1961 (241815).

Fuller, Robert S., Grand Cayman Island, B.W.I.: 62 marine mollusks from the Pleistocene of Grand Cayman Island, B.W.I. (232765).

Fuller & d'Albert, Inc., Washington, D.C.: (Through John F. Mennehan) collection of photographic equipment (241810).

Fülöp, Dr. Jozsef (See Magyar Állami Földtani Intézet)

Furlong, Col. Charles Wellington, Scituate, Mass.: Uniform and accessories worn by donor when a member of the Military Intelligence Division Reserve, ca. 1931–40 (237598).

Furlong, William Rea (See Tyree, Adm. David M.)

Gabinete Numismático de Cataluña, Barcelona, Spain: (Through Don Pedro Vegué Lligoña) proof on 18th-century paper from the original plate for printing 250 pesos stock certificates of the "Real Compañiá de Comercio" from Barcelona (241513).

Gabrielson, Dr. O. (See Naturhistoriska Riksmuseet)

Gallagher, Buell G., New York, N.Y.: Medal struck in honor of Dr. Arthur Kornberg (237673).

Gallagher, Philip F. (See Pan American Union)

Game and Fish Commission, Rockport, Tex.: 8 shrimps (234762); (through Joseph P. Breuer) 135 marine invertebrates (232488); (through Dr. Edward J. Pullen) 1 lot of hydroids and leech on a shrimp (235690).

Garber, Clark M., Butler, Ohio: Bronze medal (238965).

Gardner, E. G. (See Bostitch Co.)

Garrett, Dr. F. O., Jr., North Little Rock, Ark.: 2 electric eye booklet panes showing plate numbers and 2 strips of 5 3-cent Liberty coils showing plate numbers (238484).

Garvan, Dr. Anthony N. B., Spring House, Pa.: Awl, screwdriver, bow-pole lathe, and 6 emergency notes issued in the Philippines during World War II (236802, 241828).

Garvan, Mrs. Francis P., New York, N.Y.: 6 oil paintings (239503).

Gasch, Manning, McLean, Va.: 16 gage, double-barrel shotgun, ca. 1850–70, papers, photographs, and other memorabilia of Matilda C. and James Stevenson (240140).

Gasch, Oliver, Washington, D.C.: Photomicrographic camera, microscope, and objectives (241811).

Geary, Maj. John M. (See Defense, U.S. Department of)

Geiser, Mrs. Mary (See Zack, Henry)

General Electric Co., Schenectady, N.Y.: (Through C. H. Lansing) 7.5 KV transformer (237349); (through Dr. Glen A. Slack) synthetic Fe_3O_4, 10 grams (239266); (through C. G. Suits and J. M. Lafferty) color television picture tube (241116).

Geological Institute, Tokyo, Japan: (Through Prof. Takeo Watanabe) 5 minerals from Japan (240044, exchange).

Geologisches Institut der Universität Köln, Cologne, Germany: (Through Dr. Ulrich Jux) 68 invertebrate fossils from the Mesozoic and 3 casts of rare brachiopods from the Devonian of Germany (239633, exchange).

Geolosko-paleontoloski Institut, Ljubljana, Jugoslavia: (Through Dr. Anton Ramovs) 10 brachiopods from the Permian of Jugoslavia (237309, exchange).

George, Gordon B., Shrewsbury, Mass.: Alarm shelf clock (239670).

George Eastman House, Rochester, N.Y.: (Through Beaumont Newhall) replica of Edison kinetoscope (237366, exchange).

Georgetown University, Washington, D.C.: (Through Father Bernard McConnell) Mainka seismograph, ca. 1907 (240152).

Georgia, University of, Athens, Ga.: Grass from Florida (240620); (through Charles A. Salotti) 12 minerals from Cotopaxi, Colo. (236560); gahnite from Cotopaxi Mine, Fremont Co., Colo. (235542, exchange).

Gerecke, Mrs. Julia M., Rock Hill, Mo.: Cover bearing 2d. blue postage stamp of Great Britain, Jan. 14, 1841 (241180).

Gerrard, George, Yuma, Ariz.: Tetrahedrite from Cole Mine, Bisbee, Ariz. (240039).

Getty, W. P. (See Jones & Laughlin Steel Corp.)

Getz, Dr. Dorothy, Honolulu, Hawaii: 112 marine mollusks from the Indo-Pacific and New Zealand (234258, 238983).

Giampaoli, Pietro, Rome, Italy: 7 bronze medals and 2 plaster models of medals (240107).

Gibb, Dr. Thomas R. P., Jr. (See Burleigh, Theodore C.)

Gibbs, Dr. Robert H., Jr. (See Boston University)

Gier, Dr. L. J. (See William Jewell College)

Giesecke & Devrient, Munich, Germany: 35 documents of value and security printings (241516).

Gilbert, Cass, Jr., New York, N.Y.: Collection of project progress photographs of works designed by donor's father (239827).

Gillis, Mrs. Elizabeth (See Gillis Family)

Gillis Family, Washington, D.C.: (Through Mrs. Elizabeth Gillis) handnetted bolero of the 19th century (238739).

Ginn, Mrs. Edward E., Springfield, Va.: Silver spoon of the early 19th century (238712). (See also Ayers, Mrs. Samuel Henry)

Ginzton, Dr. E. L. (See Stanford University)

Gladfelter, William (See Defense, U.S. Department of)

Glaessner, Dr. Martin F., and Wade, Dr. Mary, Adelaide, South Australia: (Through Ruth Todd) 5 slides containing 19 paratypes of Foraminifera from the Eocene and lower Miocene of South Australia (238978).

Glenn, Murray O., Henry, Ill.: 4 small moths from North America (238130, 240665).

Glover, Charles C., Jr., Washington, D.C.: 4 U.S. gold dollars and a silver shilling struck 1555 by Philip and Mary of England (237131).

Godfrey, Harry T., Broomall, Pa.: Model of surgical ward dressing carriage made by donor's father (241312).

Goff, F. W. (address unknown); (Through Sidney D. Haas) 35 World War II distinctive insignia (241582).

Goin, Dr. Coleman J., Gainesville, Fla.: 166 frogs from Colombia (241354).

Goldmark, Dr. Peter C. (See C. B. S. Laboratories)

Goncalves, C. R., Rio de Janeiro, Brazil: 55 fruit flies from Brazil (241573).

Goodman, William E. (See Goodman Manufacturing Co.)

Goodman Manufacturing Co., Chicago, Ill.: (Through William E. Goodman) Guy's dropper pit lamp, auto-lite lamp, a carbide container, and 23 Benard mining prints (240547, 241798).

Goodpasture, Dr. Katherine A., Nashville, Tenn.: Parasitic nematode from a red-tailed hawk (235277).

Gordon, Albert H., New York, N.Y.: (Through E. Weyhe, Inc.) lithograph, *Divertissement D'Espagne*, by Francesco Goya (239336).

Gordon, Prof. W. A., Mayaguez, Puerto Rico: 19 Foraminifera from the Miocene of Lajas Valley, Puerto Rico and 2 fossil portunid crabs from the Tertiary of Puerto Rico (237742, 240257). (See also Puerto Rico, University of)

Gore, Charles M., Bristol, Tenn.–Va.: 22 items of costume, a bedspread, and a newspaper, *Chicago Evening Journal*, May 1, 1865 (237394, 237878).

Gore, Mrs. Helen Hayward, Bristol, Tenn.: Gold and jet ring of Mrs. Abraham Lincoln (236524).

Goreau, Dr. Thomas, Mona, Kingston, Jamaica: Antipatharian, gorgonian, and 3 corals (235500).

Gorgas Memorial Laboratory, Panama, Republic of Panama: 100 bird skins from Panama (239236); (through Dr. Carl M. Johnson) 22 mammals from Panama (241722); (through Dr. Phyllis T. Johnson) 3 female lice from Europe (236780, exchange); 5 vials of bird lice from Panama (238688).

Gould, Maurice M. (See Copley Coin Co., Inc.)

Goulding, Mrs. Claire S. (See Schley, Mr. and Mrs. H. P.)

Gozmány, Dr. L., Budapest, Hungary: 5 small moths, including a paratype, from Hungary (236742, exchange).

Graetzer, Ruth, Washington, D.C.: Ancestor figurine from Easter Island (238969).

Graf, A. B., Rutherford, N.J.: Cultivated fern (238509).

Graham, Dr. David C. (deceased): 5 Lolo artifacts and 2 Tibetan lama artifacts collected by Dr. Graham about 1928 (236916).

Graham, Ray A., Shadwell, Va.: Female head carved in tourmaline by Oskar J. W. Hansen (232793).

Grandison, Alice G. C. (See Great Britain, Government of)

Grant, George C. (See Virginia Fisheries Laboratory)

Graves, Prof. R. C., Flint, Mich.: 26 scarab beetles from Alabama, Louisiana, and Mississippi (241075).

Gray, Dr. Jane (See Arizona, University of)

Graybill, Pollitt, Dover, Ky.: Horsedrawn tobacco transplanter (239063).

Great Britain, Government of: *British Museum (Natural History)*: 60 phanerogams and 4 grasses from South America (238380, exchange); (through R. D. Barnett) cast impression from the cylinder seal of Darius, King of Persia (238481); (through Dr. V. F. Eastop) 4 aphids from England (241869, exchange); (through Alice G. C. Grandison) 9 frogs from South America (239553, exchange); (through Dr. David J. Lewis) 28 black flies from Venezuela (241292, exchange). *Royal Botanic Gardens:* 464 miscellaneous grasses, 151 duplicate herbarium specimens, and 16 photographs (236790, 239006, 240091, 240621, 240983); (through Dr. George Taylor) 36 phanerogams and 8 grasses (224327, exchange).

Greco, Simeon, Ridgefield, Conn.: Oil painting, "Primitive Armories," by donor (241429).

Greely, John C., Chevy Chase, Md.: 286 miscellaneous U.S. and foreign covers from the General Greely correspondence (236654).

Green, John B., Jr., Richmond, Va.: 2 invertebrate fossils from the Miocene of Virginia (235774).

Green, Richard T., Jackson, Wyo.: 4 pelecypods from the Upper Cretaceous of Lander, Wyo. (234930).

Greene, Horace, Villa Park, Ill.: Shale containing shells replaced by pyrite from a coal mine near Farmington, Ill. (237754).

Greene, Jerry, Washington, D.C.: Cacheted cover commemorating President Kennedy's visit aboard the U.S.S. *Enterprise*, April 14, 1962, with ship cancellation (241901).

Greene, Karl W., Honolulu, Hawaii: Black coral (237506).

Greene, Nathan D. (See North Carolina State College)

Greene, Sidney (See Judson L. Thomson Mfg. Co.)

Greenwell, Francis M., Washington, D.C.: Crayfish, fish, 6 frogs, and a snake from Florida (236455, 237313, 237632).

Gressitt, Dr. J. L., Honolulu, Hawaii: 74 beetles from China (241775, exchange).

Grice, Dr. George D., Woods Hole, Mass.: 3 copepods, types, and 2 slides (231302). (See also Woods Hole Oceanographic Institution)

Grieder, H. P. (See U.S. Rubber Co.)

Griesbach, John, Wheaton, Md.: 3 opals from Rockville Crushed Stone Quarry, Montgomery Co., Md. (241421).

Griffin, David F., Chicago, Ill.: 167 precanceled stamps (237418).

Griffith, Fuller, Washington, D.C.: Baxter oil print of Britannia and Menai bridges, 1850 (241741).

Griffith, Mrs. H. C., Arlington, Va.: Japanese Go-Momme Gin silver piece, Meiwa, 1765 (237130).

Griffith, John D., Ann Arbor, Mich.: Sulfur with celestite from Scofield, Mineral Co., Mich. (239557, exchange).

Griffiths, Austin, Jr. (See Los Angeles State and County Arboretum)

Griffiths, Dr. Henry J., St. Paul, Minn.: 19 fresh-water snails from Cass Co., Minn. (237526).

Grigore, Julius, Detroit, Mich.: 4,082 miscellaneous U.S. and foreign postage stamps and covers (236646).

Grim, James K., Hyattsville, Md.: (Through John C. Lingebach) fish from the Chesapeake Bay (240814).

Grimm, Jacob (See Fort Ligonier Memorial Foundation)

Grinnell, Russell, Jr. (See Rocky Neck Yacht & Vessel Corp.)

Grogan, Barry, Fairfax, Va.: 101 marine mollusks from the Seychelles (238647).

Gross, Daniel J., Bellaire, Ohio: 7 minerals from Flint Ridge, Ohio (236555).

Groves, Mrs. Mildred L., Bethesda, Md.: Uniform coat of the Washington Light Infantry, ca. 1880 (239660).

Grundset, Dr. E. O. (See Southern Missionary College)

Guenther, Carlton A., Baltimore, Md.: Bottle corker, cork puller, and 2 pairs of boot stretchers (239849).

Gulf Coast Research Laboratory, Ocean Springs, Miss.: (Through C. E. Dawson) 620 marine invertebrates, holotype of a fish, 2 isopods, 9 amphipods, and 2 caprellids (229185), 234866, 237786).

Gulf Research and Development Co., Pittsburgh, Pa.: (Through Blaine B. Wescott) Gulf gravity pendulum apparatus, 1929 (241314).

Gunawardane, Dr. K. (See Medical Research Institute)

Gunter, Dr. Gordon, Ocean Springs, Miss.: 6 shrimps (236428).

Gurney, Dr. Ashley B., Washington, D.C.: 865 miscellaneous insects from the District of Columbia, Maryland, New Jersey, and Virginia (237581, 238685).

Gustafson, Mrs. Emma M. (deceased): (Through George W. Gustafson) gold brooch set with a diamond (240402).

Gustafson, George W. (See Gustafson, Mrs. Emma M.)

Gustavson, Selma, Washington, D.C.: Carved wooden doll in costume of 1840 (235873).

Guthman, William H., Westport, Conn.: U.S. Pattern Musket, Model 1842 (239262).

Guy, Cornély, Guadaloupe, F.W.I.: 222 fresh-water snails from the French West Indies (239237).

Gwynn, Mrs. Charles A., Syracuse, N.Y.: (Through Mrs. Howard Beach) doll with wax head, ca. 1870 (241782).

Haaf, Dr. E. (See Museum G. Frey)

Haake, Dr. Friedhelm W., Kiel, Germany: 11 slides containing 49 Recent Foraminifera from the German Sea (240995).

Haas, Mrs. J. W., Aldan, Delaware Co., Pa.: 2 pairs of spectacles (237139).

Haas, Jerry, Lexington, Ky.: U.S. Army 100th Infantry Division shoulder sleeve insignia (241663).

Haas, Sidney D., Lexington, Ky.: 10 distinctive insignia of World War II (241872). (See also Butler, Brig. Gen. Benjamin J.; Goff, F. W.; Littman, Lt. Col. A. A.; and Rafferty, Maj. J.)

Hadzsits, George Depue, and Crawford, Earl Frazier, Families of, Merion Station, Pa.: (Through Mrs. Earl Frazier Crawford) mantel clock and angel carving from the Comegys Library (236386).

Hagglund, Lorenzo F., Estate of: Continental gundelo *Philadelphia* and 718 relics recovered from gunboat (229338, bequest).

Hahn, Mrs. Frances C., Vancouver, Wash.: 4 mother-of-pearl satin glass pieces and a pottery jar (237826).

Hale, Irene, Tulsa, Okla.: Chinese rug (239238).

Hamelly, Henry, Grove City, Pa.: 23 first-day covers of the U.S., Canada, and the United Nations (239920).

Hamilton, Col. Charles S., Washington, D.C.: 1,137 mint and used postage stamps of Mexico, including complete sheets (240740).

Hamilton, George E., Jr. (See Devore, Mrs. Daniel B.)

Hamilton, Mrs. George E., Jr., Washington, D.C.: 2 mantles, 1889 (236477).

Hamilton Watch Co., Lancaster, Pa.: 2 Hamilton electric watch movements encased in plastic block (241311).

Hammer, Ralph C. (See C. J. Langenfelder & Son, Inc.)

Hammer, Dr. U. Theodore (See Saskatchewan, University of)

Hammerslough, Philip, West Hartford, Conn.: Silver mug by R. H. L. Villard of the early 19th century (238711).

Hanahan, Jack, Belmont, N.C.: 7 gems and minerals from North Carolina and Utah (236443, 240243, 240923, exchanges).

Hanlon, Moira, Silver Spring, Md.: 49 coleoptera and heteroptera from Maryland (239131).

Hardin-Simmons University, Abilene, Tex.: (Through William F. Mahler) 3 lichens from Canada (240863).

Hardy, Dr. D. Elmo, Honolulu, Hawaii: 107 flies from Hawaii and Japan (238129).

Hardy, Jerry David, Baltimore, Md.: 24 reptiles and amphibians from British Guiana and Trinidad (240514).

Hare, Dr. Lulu I. Waters, Washington, D.C.: Jacquard coverlet of the 19th century (237232).

Harlow, Thompson, Hartford, Conn.: Case & Green lithograph of "The Battle of New Orleans, 1815" (241874).

Harmantas, Christas (See Commerce, U.S. Department of)

Harmic, Dr. Jay L. (See Delaware, State of)

Harold, Mrs. John C., Silver Spring, Md.: Sampler of 1860, child's embroidered dress, child's chemise, and bead-embroidered cuff (237128).

Harper, Dr. Francis, Chapel Hill, N.C.: 35 lichens from Ungava (241258).

Harrigan, Frederick (See Joy Manufacturing Co.)

Harris, W. F., Upminster, Essex, England: Pound note issued by the Bank of England (237892).

Harrises, Dr. Antonio E., Hattiesburg, Miss.: 10 slides of trematode worms, cotypes, from Mississippi (240430).

Harrison, G. Charter, Jr., Whitewater, Wis.: Air gun believed to have been used on Lewis and Clark expedition (236744).

Harsch, R. H., Hollywood, Md.: 3 meter impressions and a permit (237965).

Hart, Arch D., Woods Hole, Mass.: 13 amphipods (233592).

Harte, Richard (See Ames Shovel and Tool Co.)

Hartman, Dr. Olga (See Allan Hancock Foundation)

Hartzell, Dr. Albert (See Boyce Thompson Institute for Plant Research, Inc.)

Harvard University, Cambridge, Mass.: *Botanical Museum:* 7 phanerogams (239433). *Farlow Herbarium:* 8 lichens from St. Helena Island (228945, exchange). *Geological Museum:* (Through Dr. Clifford Frondel) 11 minerals from various localities (241099, exchange). *Gray Herbarium:* 567 ferns collected in Costa Rica by Edith Scamman and in Peru by Dr. and Mrs. Rolla M. Tryon, Jr., also 725 phanerogams, 98 grasses, and 50 ferns (226329, 236789, exchanges). *Museum of Comparative Zoology:* (Through Dr. Henry B. Bigelow and Mrs. Myvanwy Dick) 8 fishes, holotypes, collected by the U.S. Fish and Wildlife Service (237939, exchange); (through Dr. William J. Clench) 234 fresh-water snails from Alabama and Georgia; also 6,638 miscellaneous mollusks (238330, 239288, 241678, exchanges); (through Dr. Elisabeth Deichmann) 2 invertebrate fossils from the Indian Ocean and the Atlantic off Cuba (236572); (through Dr. Howard E. Evans) 2 paratypes of wasps from North America (239640); (through Dr. Giles W. Mead) 11 illustrations of skates and an eel (239780); (through Dr. Raymond Paynter, Jr.) bird from

Costa Rica (238324, exchange). *Peabody Museum of Archaeology and Ethnology:* (Through Dr. Samuel K. Lothrop) 70 skeletons from Venado Beach, Canal Zone, Panama (240808).

Harvey, Dr. O. L. (See Leopold, Alice K.)

Harwood, Dr. Paul D., Ashland, Ohio: 52 fruit flies from North America (240068).

Hasse, William F., Jr., New Haven, Conn.: 2 U.S. stampless covers of 1835 (240111). (See also First New Haven National Bank)

Hatschbach, Dr. Gert, Paraná, Brazil: 382 phanerogams, 42 grasses, and 56 ferns from Brazil (235276, 236200, 236719, 237297, 237946, 238583, 239712, 239868, 241034, 241381).

Hatten, Charles W. (See Pan American Hispano Oil Co.)

Haverlin, Carl, New York, N.Y.: "Wide Awake lantern" from the Lincoln campaign of 1860 (240719).

Haverschmidt, Dr. F., Paramaribo, Dutch Guiana: 45 skulls of mammals from Surinam (229593).

Hawaii, University of, Honolulu, Hawaii: (Through Dr. J. E. Alicata) 15 land snails from Tahiti (237612); (through Dr. Sidney C. Hsiao) 3 amphipods (238780); (through Dr. Alan Lewis) 15 parasitic isopods (237359).

Hawaii Department of Agriculture and Conservation, Honolulu: (Through C. J. Davis) 32 flies from Hawaii (241571); (through Lyman Nichols) wild boar from Hawaii (240758).

Hawkes, Robert B., Moscow, Idaho: 5 moths from Idaho (241173).

Hayes, Elsie, Franklin, N.C.: High School diploma (237230).

Haynes, Kenneth D., Woodstock, N.H.: Clay "T.D." pipe and a razor bearing the portrait of George Washington (240967).

Hazlett, B. A., College Park, Md.: 60 shrimps (235176).

Health, Education, and Welfare, U.S. Department of, Washington, D.C.: *Food and Drug Administration:* (Through Robert Thompson) 25 fishes and 16 color slides of commercial fishes from Campeche Bank, Mexico (240446). *National Institutes of Health:* (Through Dr. Conrad E. Yunker) 108 bats from Panama (237118). *Public Health Service:* (Through Dr. W. J. Jellison) 2 larvae of bot fly from sheep from Montana (238696); (through Dr. Conrad E. Yunker) 471 lice from Panama (238691). *Rocky Mountain Laboratory:* (Through Dr. Glen M. Kohls) 16 ticks, all paratypes, from Chile (240061). (See also Smithsonian Institution)

Healy, Mrs. Charles, Princeton, N.J.: Glass custard dish, 2 buttons, a badge, and an official program of Notification Day Exercises at Clarksburg, W. Va., relating to donor's father's campaign for Presidency (238744, 240906).

Healy, Dr. Mark F., Bethesda, Md.: 5 items associated with Col. Elmer Ellsworth and the capture of Alexandria during the Civil War (240139).

Hebert, Brother Ephrem, Covington, La.: 124 phanerogams from Louisiana (237734).

Heidelberg, University of, Heidelberg, Germany: (Through Prof. Paul Ramdohr) specimen of the Kandahar, Afghanistan meteorite (241866).

Heinmuller, John P. V., Estate of: (Through Nathan S. Briskman) collection of 7,013 stamps (231790, bequest).

Heller, Carl Benno, Heidenheim, Brenz, Germany: 265 invertebrate fossils from the Paleozoic and Mesozoic of Germany (233356, exchange).

Heller, Dr. R. L. (See Minnesota, University of)

Helmcke, Dr. J. G., Berlin-Dahlem, Germany: 4 recent brachiopods collected by the Valdivia Expedition (241158, exchange).

Henbest, Dr. Lloyd G., Washington, D.C.: 7 photographic prints, a book, and a film magazine (241725). (See also Interior, U.S. Department of the)

Henckell, Herbert N. (See Alexander County Coroner's Office)

Henderson, E. P., Washington, D.C.: Slice of Bonita Springs, Fla., meteorite (237306).

Henderson, William A., Jr., Stamford, Conn.: Chabazite from Newton, Conn. (236774).

Heraldic Art, Cleveland, Ohio: Silver medal commemorating the Kansas statehood centennial, 1961 (238472).

Herbarium Bogoriense, Bogor, Indonesia: 1,064 phanerogams, 4 ferns, and grass from Indonesia (239593, exchange).

Herbarium Bradeanum, Rio de Janeiro, Brazil: 115 grasses from Brazil (235670).

Hermann, Dr. Frederick J., Adelphi, Md.: 1,265 mosses from Europe and the U.S. (241492).

Hesky, Dr. M. G., Tel Aviv, Jaffa, Israel: Presentation folder containing 14 mint stamps of Israel (236796).

Hess, Max, Allentown, Pa.: Water pitcher from the Lehigh Valley Railroad (239071).

Hesselschwerdt, Prof. A. L., Jr. (See Massachusetts Institute of Technology)

Heubach, William (See California, State of)

Hewlett, Mrs. J. Monroe, Washington, D.C.: Roman Republican denarius struck by the moneyer L. Plautius Plancus in 47 B.C. (237891).

Hightower, Col. J. M., Alexandria, Va.: 2 Japanese dolls (236912).

Higinbotham, George R. (See Mountaineer Coal Co.)

Hill, John A. (See Myers, W. T.)

Hill, Dr. K. G. (See Science Museum)

Hill, Mrs. Malcolm Westcott, Alexandria, Va.: 46 items of costume material, household furnishings, and textiles of the 19th century (235870).

Hill, Mr. and Mrs. Peter, Washington, D.C.: Tape loom, probably early 18th century (240632).

Hitchcock, Frank H., Estate of: (Through Mrs. Eleanor M. Olson, Mrs. Dorothy Mann Cordry, and Frederick M. Mann, Jr.) silver trophy mailed as first parcel-post package to the Honorable Frank H. Hitchcock, Jan. 1, 1913 (239311).

Hixenbaugh, Mrs. W. A., Cocoa Beach, Fla.: Indian bust (240002).

Ho, Ju-Shey (See National Taiwan University)

Hobbs, Dr. Horton H., Jr., Washington, D.C.: 3 crayfish, types (236498).

Hobson, Lilian Paget, Elmira, N.Y.: Moiré dress of the late 19th century (239206).

Hodge, Dr. Walter H., Chevy Chase, Md.: 1,204 phanerogams from Dominica, British West Indies (240532).

Hodges, Capt. Hugh L., Jr., Falls Church, Va.: Officer's frock coat and jacket worn by donor during the Civil War (240137).

Hoff, Dr. C. Clayton, Albuquerque, N. Mex.: 244 pseudoscorpions from the U.S., including 2 holotypes, 2 allotypes, and 6 paratypes (238139).

Hoffman, Eunice L., Bethesda, Md.: Dress with matching purse, fan, and mesh bag of 1911 (241031).

Hoffman, Dr. Richard L., Blacksburg, Va.: 178 centipedes, millipedes, and harvestmen, including a holotype and 3 paratypes, from Europe and the U.S. (238674, 239911, 241287).

Holbrook, L. W. (See Devore, Mrs. Daniel B.)

Holsinger, John R., Alexandria, Va.: 8 isopods and 1 amphipod (230763, 233000).

Holst, Donald W., Washington, D.C.: Safe conduct pass of World War II (241425).

Holt, Alfred H. (See Spalding, Francis O.)

Holt, Donald R. (See Spalding, Francis O.)

Holt, Jeannette, R. (See Spalding, Francis O.)

Holt, McPherson (See Spalding, Francis O.)

Holthuis, Dr. L. B., Leiden, Netherlands: Isopod, 112 amphipods, and 6 horseshoe crabs (230237, 235125, 236395).

Holtzclaw, Henry J. (See Treasury, U.S. Department of the)

Homan, B. H., New York, N.Y.: 1,025 La Guaira stamps (240340).

Hong Kong, University of, Hong Kong: *Museum of Chinese Art and Ar-*

cheology: (Through Mary Tregear) 26 archeological items from Hong Kong (241858).

Hood, James R., N. Chattanooga, Tenn.: 84 land snails from Texas and 49 marine gastropods from Solomon Island and the Bismarck Archipelago (210183, 210197).

Hoogland, Dr. R. D. (See Australia, Government of)

Hoogstraal, Dr. Harry (See Defense, U.S. Department of)

Hopfinger, John, Brewster, Wash.: 36 butterflies from Washington (238703, exchange).

Hopkins, Stephen (See District of Columbia Public Schools)

Hosea, Mrs. Harold R., Chevy Chase, Md.: Embroidered fabric sample, 17th century (241442).

Hoskins, Donald M. (See Pennsylvania Geological Survey)

Hotchkiss, Grosvenor (See Western Union Telegraph Co.)

Hotchkiss, Mrs. Stewart R., Redlands, Calif.: 58 items of costume, 1789–1890 (238320).

Houston, Dr. Charles O., Jr., Washington, D.C.: 11 Japanese notes issued for the Philippines; war ration book, shoe purchase certificate, a gasoline purchase permit issued by the U.S., portfolio containing 34 pictorial prints, and 19 items from northern Philippines (237894, 238735, 241251).

Houston, Floyd D., New Suffolk, L.I., N.Y.: Model of Confederate submarine torpedo boat, *H. L. Hunley*, constructed by donor (241878).

Howard, E. A., Washington, D.C.: Television set (237350).

Howard, Mrs. Faye B., Pacific Palisades, Calif.: 18 marine mollusks from Baja California, Mexico (233165).

Howard, Hugh (address unknown): 42 meteorites (237753).

Howard, Col. John K., and Robins, Dr. C. Richard, Miami, Fla.: Spearfish from off the coast of Punta S. Raineri, Sicily (238204).

Howard, T. Brooke (See Rotchford, Miriam Blanche)

Howe, Alice H., Arlington, Va.: Upper molar of dog from the Miocene of Chesapeake Beach, Md. (236923).

Howgate, Ida (deceased): (Through Alex McC. Ashley) pair of blue vases with handles (241790, bequest).

Howland, David, Falls Church, Va.: 2 apophyllites from Arlington Quarry, Loudoun Co., Va. (239267).

Howland, Dr. Richard H., Washington, D.C.: Silver sipper, ca. 1800; bill for sale of hardware, ca. 1750; stereoptican views; roach trap; and a corn scraper (237035); man's hat stretcher of 1885 (237082); knife owned by Hon. Charles Sumner, Cleveland and Thurman campaign cap, and 2 items from the 1957 Inaugural Ball (237596); medal commemorating Centennial of American Independence, 1776–1876 (239008); 188 miscellaneous U.S. and foreign covers bearing stamps and meter impressions (240128). (See also Watkins, C. Malcolm)

Hoynes, G. S., Seattle, Wash.: Silicified fern stem from the Tertiary of Eugene, Oreg. (238115).

Hoyte, Dr. H. M. D., Brisbane, Australia; Slide of a blood parasite, cotype, from cattle of Australia (239736).

Hsiao, Dr. Sidney C. (See Hawaii, University of)

Hubbard, Mrs. Robert A., Philadelphia, Pa.: Lincoln transparency probably from the 1860 campaign (238747).

Hubbs, Dr. Carl L. (See Andrews, Dr. E. Wyllys, and Scripps Institution of Oceanography)

Hubricht, Leslie, Atlanta, Ga.: 3 land mollusks, 4 salamanders, and 2 lots of invertebrates from Alabama and Georgia, also 10 isopods and a crayfish (237188, 237989).

Hudson, Lawrence S., East Setauket, N.Y.: Plate bearing likeness of Mrs. Jacqueline Kennedy (236613).

Hudson, R. H., Coventry, England: 3 microscope slides of wood (234966, exchange).

Huff, C. W., Jr., Richmond, Va.: 7 fossils from the Miocene of Virginia (238060).

Huff, Clay G., Bethesda, Md.: 2 phanerogams from South Carolina (237739).

Huggins, Dr. Ernest J. (See Self, Dr. J. Teague)

Hughes, Mrs. Gerald, Denver, Colo.: 25 Colonial, Continental, and State bank notes and 128 U.S. and foreign gold, silver, and copper coins (239346).

Hughes, Mrs. Helen, Washington, D.C.: Big brown bat from the District of Columbia (240069).

Hulings, Dr. Neil (See Texas Christian University)

Hultén, Dr. Eric, Stockholm, Sweden: 957 phanerogams, 107 grasses, and 38 ferns from Alaska collected by donor (240977).

Humes, Dr. Arthur G., Boston, Mass.: 1,461 copepods (237804).

Humiston, Lee E., China Lake, Calif.: 9 pieces of naturally-etched obsidian from Coso Hot Springs, Inyo Co., Calif. (241659).

Hungerford, Dr. H. B. (See Kansas, University of)

Hunt, Joe, Washington, D.C.: Metal scale model of a trailer truck used to haul mail (241840).

Hunt, William, Valley Forge, Pa.: Ajoite from New Cornelia Mine, Ajo, Ariz. (238107, exchange).

Hunter, Dr. Preston E., Athens, Ga.: 7 mites, including paratypes, allotype, and 2 holotypes, from North America (229916).

Hürlimann, Dr. Hans, Basle, Switzerland: 13 phanerogams from Tonga (237564). (See also Smithsonian Institution)

Hutchins, Mrs. Will, Washington, D.C.: 2,000 slides of bryozoans (237783).

Hutchinson, Helen, Bethel, Del.: (Through Saral Teilhet) 2 sashes from the "Woman Suffrage movement" (240195).

Hutchison, Paul C. (See California, University of)

Huttleston, Dr. Donald G. (See Longwood Gardens)

Hutto, Prof. T. A. (See Eastern Kentucky State College)

Hutton, Dr. Robert F. (See Florida State Board of Conservation)

Huyck, Edmund Niles (See Preserve, The)

Idaho, University of, Moscow, Idaho: Grass from Idaho collected by Prof. William H. Baker (238719).

Illg, Dr. Paul L., Seattle, Wash.: 22 copepods (230919).

Illinois, University of, Urbana, Ill.: (Through Dean W. L. Everitt) Kerst betatron (233629); (through Dr. G. Neville Jones) 4,637 woods comprising the Archie F. Wilson wood collection (234302, exchange). *College of Dentistry:* (Through Prof. Allan G. Brodie) 271 items comprising the Edward H. Angle collection and personal memorabilia (238391).

Illinois State Museum, Springfield, Ill.: Grass from Illinois (238720).

Imperial College of Tropical Agriculture, Port-of-Spain, Trinidad, B.W.I.: (Through Dr. W. D. Richardson) 37 phanerogams, 3 grasses, and 1 fern (237944, exchange).

India, Government of: *Forest Research Institute:* (Through K. Ramesh Rao) 92 wood specimens from India (236673, exchange). *Geological Survey:* (Through P. B. Banerjii) 8 meteorites from India (238567, exchange). *Ministry of Scientific Research and Cultural Affairs:* 292 ethnological specimens from India (240189). *Indian Institute of Technology:* (Through Dr. T. C. Bagchi) 5 Foraminifera from the Eocene of Garo Hills, Assam (235490, exchange).

Ingersoll-Rand Co., New York, N.Y.: (Through M. L. McCormack) 6 rare mining machines (241802).

Ingle, H. D. (See Australia, Government of)

Ingraham, Edward, Bristol, Conn.: 7 watches (236660).

Institut de Parasitologie, Strasbourg, France: (Through Dr. Michel Kremer) 40 sand flies from France (238875, exchange).

Institut Français d'Afrique Noire, Dakar, Sénégal, Africa: (Through Dr. I. Marche-Marchad) marine mollusk from West Africa (239497).

Institut Royal des Sciences Naturelles de Belgique, Brussels, Belgium: (Through Dr. Paul Sartenaer) 7 brachiopods from the Devonian of New York (240260); (through Dr. R. Van Tassel) crandallite from Blaton, Belgium (234423, exchange).

Institute of Ethnology, Nankang, Taipei, Taiwan, China: (Through Prof. Shun-sheng Ling) 36 musical instruments (236758, exchange).

Institute of Jamaica, Kingston, Jamaica: (Through Thomas H. Farr) 24 beetles, including paratypes, from Jamaica (238820, 241675). *Science Museum:* 187 phanerogams and 16 ferns from the Lesser Antilles and Jamaica (237351, exchange).

Institute of Marine Science, Port Aransas, Tex.: (Through Frank J. Little, Jr.) 4 sponges (238784).

Instituto Agronômico do Estado, Campinas, São Paulo, Brazil: Grass from Brazil (240730).

Instituto Agronômico do Norte, Belém, Pará, Brazil: (Through Dr. J. M. Pires) 60 phanerogams from Brazil (238775).

Instituto Agronômico do Sul, Pelotas, Brazil: (Through Dr. José da Costa Sacco) 8 phanerogams (203813).

Instituto de Biología, Mexico, D. F.: Phanerogam from Mexico (238718).

Instituto de Botânica, São Paulo, Brazil: 971 phanerogams, 137 grasses, 59 ferns, and 14 woods mostly from Brazil (236806, 237945, 241861).

Instituto de Botanica Agricola, Buenos Aires, Argentina: Grass and 4 phanerogams (237625).

Instituto de Botánica Darwinion, San Isidro, Argentina: 27 phanerogams and 3 ferns (240298, exchange); (through Dr. Arturo Burkart) phanerogam (237943, exchange).

Instituto de Ciencias Naturales, Bogotá, Colombia: 79 phanerogams from Colombia (240297, exchange); 8 phanerogams from Colombia (240599); (through María Teresa Murillo) 4 ferns from Colombia (237103, 238379).

Instituto de História Natural, Curitiba, Paraná, Brazil: 176 phanerogams, 5 grasses, and a fern from Brazil (235671, 239847).

Instituto Nacional de Investigaciones Forestales, Coyoacán, Mexico, D. F.: (Through Ing. Jesús Vázquez Soto) 2 plants, wood, and a phanerogam (240887, exchange).

Instituto Nacional de Microbiologia, Buenos Aires, Argentina: (Through Dr. Eduardo Del Ponte) 146 mosquitoes from Argentina (237977, exchange).

Instituto Oswaldo Cruz, Rio de Janeiro, Guanabara, Brazil: 126 phanerogams and 4 grasses from Brazil (235171, 240619).

Instituto Tecnologico de Veracruz, Veracruz, Mexico: (Through Humberto Châvez) 2 fishes, paratypes, from Mexico (239485).

Inter-American Tropical Tuna Commission, La Jolla, Calif.: (Through Dr. W. L. Klawe) 2 shrimps, marine mollusks, and spinner porpoise (236432, 238646, 239953).

Inter-Governmental Philatelic Corp., New York, N.Y.: 30 mint postage stamps of Ghana and Nigeria (239918); (through Manfred R. Lehmann) 48 Hammarskjold stamps of Surinam (240125).

Interior, U.S. Department of the, Washington, D.C.: *Bureau of Mines:* (Through Dr. Lester G. Morrell) 2 fossil woods from Antarctica (237224); (through William Rachunis) mining drill (240082); (through Dr. Earle P. Shoub) coal and photomicrographs of coal sections (236948). *Fish and Wildlife Service:* 25 phanerogams from Mexico and the U.S. and 2 grasses from Texas (236591, 239002); 4 bird skins from Oregon (237865, exchange); (through Dr. Elbert H. Ahlstrom) 229 fishes from the Pacific (238948); (through William W. Anderson) 5 eels, including 2 holotypes and 3 paratypes, from western Atlantic, 6 fishes collected by the *Silver Bay,* and paratypes of a fish from the Gulf of Mexico (222278, 237867, 240844); (through Frederick H. Berry) 22 amphipods (236430); (through Harvey R. Bullis, Jr.) 2 fishes, including type and paratype of a new species, collected by the *Silver Bay* (236188); (through Harvey R. Bullis, Jr., and Dr. Daniel M. Cohen)

5,126 fishes, including 4,868 larval forms, and 1,016 crustaceans (236241); (through John R. Clark and Dr. Victor G. Springer) 6 fishes, including 5 sharks and a Remora from New Jersey (237497); (through Dr. Daniel M. Cohen) 20 amphipods, 8 fishes, and 2 mollusks (236450, 237578); (through Eugene Cypert) 3 frogs, 1 lizard, and fishes from Okefenokee Swamp, Ware Co., Ga. (238946); (through George F. Kelly and Dr. Daniel M. Cohen) 3 berycoid fishes (238410); (through Eugene Kridler) purple finch from Oregon (241047, exchange); (through Mrs. Roxie C. Laybourne) 419 birds skins, 47 skeletons, 1 alcoholic, and 10 eggs (241918); (through Dr. Richard H. Manville) 269 mammals (241856); (through Dr. Ernest D. McRae) 7 shrimps (237508); (through Arthur S. Merrill) lot of hydroids and 34 marine mollusks from off Maryland and Georgia (237916, 238288); (through R. T. Mitchell) type, allotype, and 6 paratypes of flies from Maryland (241290); (through Clarence F. Pautzke) die proof and 30 Migratory Bird Hunting stamps (237340); (through James G. Ragan) 13 fishes from the northwestern Gulf of Mexico (240503); (through Dr. Albert K. Sparks) 164 sea anemones (234238); (through Dr. Donald W. Strasburg) 9 fishes from the Marshall Islands (238201); (through Dr. Paul J. Struhsaker) part of egg mass in gelatinous veil, 5 sharks from off northern Florida, and 6 marine invertebrates (235591, 236182); (through Dr. James E. Sykes) 2 sponge crabs (221253); (through Michio Takata) 7 sharks from Hawaii (239444); (through Norman Tebble) 144 polychaete and 3 chaetognath worms (237663); (through Carl F. Wall) 9 electric eels from the Amazon River, Brazil (240276); (through Dr. R. R. Whitney) 4 porpoises (239292); (through Dr. Roland L. Wigley) 8 marine mollusks from Georges Bank, off Massachusetts, and 5 copepods (216503, 230716). *Geological Survey:* 952 phanerogams, 61 grasses, and 72 ferns from Alaska collected by Dr. Hansford T. Shacklette; fossil turtle from Bearpaw Mountains, Mont.; 22 fossil corals, holotypes and paratypes from northern Maine and the Lower Devonian of New York, 276 phanerogams, 28 grasses, 15 ferns, and a cryptogam from Pacific Islands collected by Dr. F. R. Fosberg; and 3 minerals from Inyo Co., Calif. (236755, 238866, 239113, 239184, 240249); (through Dr. Arthur A. Baker) 9 echinoids from Colorado and New Mexico, 56 marine invertebrates from western Tennessee, 118 ammonites, types, from Alaska, 7 chiton plates, 50 invertebrate fossils from Montana, and 95 Foraminifera, including types, from the Tertiary of Georgia and various Paleozoic localities (236927, 239110, 239781); (through Dr. Richard S. Boardman) 35,600 bryozoans and stromatoporoids from New York State, West Virginia, and the Middle Ordovician of Tennessee and southern Virginia collected by Dr. Boardman, 1952–58 (237744); (through Dr. Preston E. Cloud, Jr.) 23 miscellaneous fishes from Gilbert Islands, also a sponge, coral, and a brachiopod (241349); (through Dr. J. T. Dutro) approximately 40,000 conodonts, including types (239108); (through G. Donald Eberlein) 12 brachiopods from the inland waterways of southeastern Alaska (241864); (through Dr. F. R. Fosberg) 273 phanerogams and 46 ferns from Melanesia collected by Dr. Fosberg (236592); (through Lloyd G. Henbest) 136 thin sections and 156 samples of Foraminifera from the Paleozoic of various localities (237660, 237740, 237743); (through Dr. Sergius H. Mamay) 2 counterparts of holotype of a fossil crustacean from the Permian of Texas and an insect from the Pennsylvanian of Williams Co., Ga. (237116, 240732); (through Dr. Sergius Mamay, Dr. Walter W. Dalquest, and Walcott Fund) fossil amphibian material from Texas (241862); (through Dr. C. W. Merriam) 168 cephalopods, mostly goniatites, from the Middle and Upper Devonian of Morocco (239441);

(through Robert B. Neuman) 26 eurypterid remains from Keefer sandstone, Maryland, and 2 fossil worm trails from Grand Pitch formation, Maine (236926, 240256); (through Dr. Thomas B. Nolan) neighborite from the Eocene Green River formation, South Ourey, Utah (238531); (through Dr. W. A. Oliver) 12 fossil algae from Montana (235717); (through Dr. A. R. Palmer) 141 invertebrate fossils from various localities (240259); (through Dr. Reuben J. Ross, Jr.) 12 fossil arthropods from Nevada and 42 crustaceans from the Ordovician of Idaho (240253, 241570); (through W. J. Sando) 53 corals from the Mississippian of Montana and Utah (239111); (through James M. Schopf) 4 fossil plants from Mt. Glossopteris, Antarctica (240255); (through Dr. Brian J. Skinner) wurtzite and 2 fluorites from Bohemia and Colorado (240038); (through Dr. I. G. Sohn) 7 slides containing ostracode types (239114); (through Drs. F. M. Swain, Jr., and I. G. Sohn) 146 ostracodes from the Pleistocene of Northern Alaska, and 10 slides of ostracode types (240537); (through Ruth Todd) 36 samples of raw materials containing Foraminifera from various localities (239235, 240766); (through Dr. Frank C. Whitmore, Jr.) 2 fossil fish teeth from the Cretaceous of Montana, an incomplete fish in slab from Horse Creek Valley, Eureka Co., Nev., 3 specimens of vertebrate fossils from the Miocene of Maryland, skeletal remains of a rhinoceros from the Pleistocene of Kuzuû formation, Japan, and tibia of a bison from the Pleistocene of Glennallen, Alaska (236924, 238110, 241657, 241658, 241660); (through Dr. Ellis L. Yochelson) 100 mollusks from Portersville formation, Portersville, Ohio, 25 invertebrate fossils from the Ordovician of Thailand, 62 invertebrate fossils, topotypes, with 9 plaster casts, and 5 sponges (237115, 237117, 239112); (through Dr. Sergius H. Mamay, Dr. Walter W. Dalquest, and Walcott Fund) fossil amphibian material from Texas (241862). *National Park Service:* Diamond ring (239229); (through Newell F. Joyner) mining surveyor's tape (241450, exchange).

International Business Machines Corp., New York, N.Y.: (Through Edmund Bowles) documents, manuscripts, and letters pertaining to electricity from the Hammer collection, also phonograph records, medals, and radium sample (238525); (through T. D. Jones) 24 pieces of Peruvian textiles (238623); (through Chris Van Groesbeck) 4 photomicrographic prints by Dr. Roman Vishniac (241888).

International Import Co., Forest Park, Ga.: (Through George A. Bruce) quartz cabochon from Brazil (240045).

International Silver Co., Meriden, Conn.: (Through E. S. Wilson) clipping press, rolling mill, group of tools and parts, and an engine-turning machine (239319).

Isaacson, Mr. and Mrs. L. E., Pittsford, N.Y.: Treadle sewing machine, 19th century (241094).

Isham, Lawrence B., Washington, D.C.: 4 U.S. meter impressions, and 4 foreign covers bearing postage stamps and meter impressions (240337).

Ishida, Capt. Suteo (See Suiko Kai Association)

Ishpeming Rock & Mineral Club, Ishpeming, Mich.: (Through Mrs. C. R. Markert) kona dolomite from Michigan (235852).

Island Creek Coal Co., Holden, W. Va.: (Through N. T. Camicia) quartz crystals, trip lamp, 2 track adzes, needle for shooting black powder in coal mines, and a fossil plant (239763).

Islas S., Dr. F., Mexico, D. F.: 10 scarab beetles from Mexico (240675).

Israel, State of, Haifa, Israel, *Sea Fisheries Research Station:* (Through Dr. Adam Ben-Tuvia) 6 sharks from the Red Sea and the Mediterranean Sea (236318, exchange).

Istituto Botanico, Firenze, Italy: 160 phanerogams and 140 grasses from Africa (239644, exchange).

Italy, Government of: *Italian Mint:* 2 silver 500-lire pieces struck in commemoration of the centenary of Italian unification, 1961, and 4 medals produced by the Italian Mint (239347, 240099).

Jackson, Daniel (See Jackson, Thomas)

Jackson, Thomas and Daniel, Washington, D.C.: Engine order telegraph from the U.S.S. *Wichita*, World War II (241886).

Jacob, C. Albert, Jr., Chestertown, N.Y.: 3 cardboard tokens issued during the Civil War by Mathews and Bros. of New York (237588).

Jacobs, Madelyn E., Washington, D.C.: 545 miscellaneous mint and used foreign postage stamps (240741, 241111, 241183).

Jacobson, Morris K., Rockaway Beach, N.Y.: 12 marine mollusks from New York (238981).

Jago, John B., San Francisco, Calif.: 10 minerals (237750, exchange).

James, Dr. Maurice T., Pullman, Wash.: 7 soldier flies from the Pacific regions and Mexico, and a small moth from North America (238145, 239124).

Janin, Andre Charles, Washington, D.C.: Model of engine and boiler, ca. 1902 (237908).

Japan, Government of: *Forest Experiment Station:* (Through Syoji Sudo) 125 wood specimens (236957, exchange).

Jardim Botanico do Rio de Janeiro, Brazil: (Through Dr. Dardano de A. Lima) 35 phanerogams (237254, exchange).

Jardim e Museu Agrícola do Ultramar, Belém-Lisboa, Portugal: (Through Dr. J. D. Sampaio d'Orey) 6 wood specimens (236738, exchange).

Jeffrey Manufacturing Co., Columbus, Ohio: 2 original Jeffrey cutters (237319).

Jellison, Dr. W. J. (See Health, Education, and Welfare, U.S. Department of)

JENA^{er} Glaswerk Schott & Gen., Mainz, Germany: (Through Fish-Schurman Corp.) 3 interference filters and a block of optical glass (240150).

Jenkins, Nettie R., San Diego, Calif.: Double-woven jacquard coverlet (239334).

Jennings, A., Fiji Islands: 14 marine mollusks from Nadi Bay, Viti Levu, Fiji Islands (241376).

Jensen, David E. (See Ward's Natural Science Establishment, Inc.)

Jess, William H. (See Bethlehem Steel Co.)

Jessen, Dr. L. T. (See Corn States Laboratories, Inc.)

Jiménez, Dr. H. Adolfo (See Colegio "La Salle")

Jiménez, Dr. José de Js., Santiago de Los Caballeros, Dominican Republic: 99 phanerogams, 10 grasses, and 1 fern from the Dominican Republic (237566, 239185, 240731).

John Patrick & Son, Berkeley, Calif.: 2 minerals from the Union of South Africa and Japan (237483, exchange).

Johns Hopkins University, Baltimore, Md.: (Through Richard S. Peterson) 6 mammals from St. Paul Island, Alaska (241720).

Johnsen, Carl A., Denver, Colo.: 33 miscellaneous mint and used postage stamps of Denver (239009).

Johnson, Dr. Carl M. (See Gorgas Memorial Laboratory)

Johnson, Dr. David H., Washington, D.C.: 120 mammals, 3 reptiles and amphibians from Canada and the U.S. (238580, 241510).

Johnson, Adm. Jesse G., Norfolk, Va.: 4 panes reprinted from a plate of the altered 2-cent Confederate States of America stamp (239929).

Johnson, Norman E. (See Weyerhaeuser Co.)

Johnson, Dr. Phyllis T., Balboa Heights, Canal Zone: 19 fleas from Panama (238689). (See also Gorgas Memorial Laboratory)

Johnson, Sarah C., Silver Spring, Md.: Cobbler's iron jacks with stands (241804).

Johnson, T. E. (See Northern West Virginia Coal Assoc.)

Jon Weber Manufactory, Cleveland, Ohio: Political dice games (235767).

Jones, Eleanor K., and Brennan, Dr. James, Hamilton, Mont.: 27 ticks, paratypes, from Panama (238653).

Jones, Dr. G. Neville (See Illinois, University of)

Jones, Mrs. Harvy L. M., Washington, D.C.: Sofa-bed (238370).

Jones, Dr. Joseph, Jr., Raleigh, N.C.: Holotype and paratype of mites from southeastern U.S. (241572).

Jones, R. H., Mt. Savage, Md.: Cross-section of one of the original rails drawn at the Mt. Savage mills (236947).

Jones, Prof. R. V. (See Aberdeen, University of)

Jones, Dr. S. (See Central Marine Fisheries Research Institute)

Jones, Samuel B., Jr. (See Auburn University)

Jones, T. D. (See International Business Machines Corp.)

Jones, Hon. Walter B., Montgomery, Ala.: 3 Confederate General staff and Field Officer's buttons (240028).

Jones & Laughlin Steel Corp., Pittsburgh, Pa.: (Through W. P. Getty) 4 nails from the Roman Site at Inchtuthil, Scotland (241726).

Jordan, Hashemite Kingdom of, Amman, Jordan: Cast of South Arabian clay stamp from Beitin, Jordan (238964).

Jordan, Mrs. Syd C., Memphis, Tenn.: 92 mollusks from the Upper Cretaceous of Ripley formation, McNairy Co., Tenn. (240993).

Joslin, Edmund J., Berlin, Mass.: 52 artifacts relating to rural free delivery service (236649).

Josselson, Joseph, New York, N.Y.: Free frank cover from Mexican Consulate, Kansas City, Mo. (239655).

Joy Manufacturing Co., Claremont, N.H., and Pittsburgh, Pa.: (Through Frederick Harrigan) Sullivan drill (239010); (through J. D. A. Morrow) Troller axial flow propeller section (239332).

Joyner, Newell F. (See Interior, U.S. Department of the)

Judson L. Thomson Mfg. Co., Waltham, Mass.: (Through Sidney Greene) bifurcated rivet attaching machine and small trunk (240083).

Julius Roehrs Co., East Rutherford, N.J.: Cultivated fern (235520).

Jux, Dr. Ulrich (See Geologisches Institut der Universität Köln)

Kabata, Dr. Z. (See Marine Laboratory)

Kaicher, Mrs. John J., Tampa, Fla.: 47 marine mollusks from Florida (224296, exchange); 16 marine mollusks from the Philippines and Netherlands New Guinea (228205).

Kainen, Jacob, Washington, D.C.: Etching, *A Village*, by Marco Ricci and a line engraving, *Venus and Cupid Receiving Gifts*, by Jan Muller and A. B. Spranger; print of Tickhill castle, Yorkshire; 3 etchings and a chiaroscuro print of the 16th, 17th, and 18th centuries (237231, 239365, 240075).

Kamp, J. W., Redding, Calif.: 3 ice bugs from California (241295).

Kanehira, Dr. Keiichiro (See Tokyo, University of)

Kansas, University of, Lawrence, Kans.: (Through Dr. Frank B. Cross) 10 fishes, paratypes, from Arkansas (238947); (through Dr. H. B. Hungerford) 2 water striders, paratypes, from Asia (233914, exchange); (through Dr. C. D. Michener) 9 bees, paratypes, from South America (238088).

Kansas State University, Manhattan, Kans.: (Through Dr. C. L. Kramer) 2 lichens from Mexico (228831).

Kanturek, Joseph B., Flushing, N.Y.: 2 souvenir sheetlets with first-day cancellations of U.S. Sun Yat-Sen commemorative stamp and U.S. 8-cent regular Pershing stamp (240114).

Kaplan, Mrs. Leonard (See Rubinton, Col. Samuel)

Kardos, Ervin, Los Angeles, Calif.: 48 chiggers, including 2 holotypes and 30 paratypes, from the Far East (238668).

Karo, Rear Adm. H. Arnold (See Commerce, U.S. Department of)

Karp, Louis R., Louisville, Ky.: Silver and 2 bronze medals issued by the Kentucky State Numismatic Association commemorating the Civil War centennial and the State of Kentucky (240907).

Kaye, Dr. Kenneth W. (See Defense, U.S. Department of)

Keally, Mrs. Mildred Taber, New York, N.Y.: Jade wine pourer (239404).

Kee, James, Cambridge, Mass.: 5 fossil echinoids from the Silurian of Tennessee (237113).

Keezell, Lt. Nathaniel H., Jr., Wright-Patterson A. F. Base, Ohio: 29 Air Force Academy uniforms and accessories worn by donor from 1955–59 (239759).

Kehm, Col. H. D. (See First Manassas Corp.)

Keith, Bernard, Detroit, Mich.: 750 invertebrate fossils from the Devonian of Northeastern Ohio (237308).

Kelleher, James F. (See Post Office Department)

Kellen, Dr. W. R., Fresno, Calif.: 211 biting midges, including holotypes, allotypes, and paratypes, from California and Samoa (238138, 238146).

Kellogg, Dr. Remington, Washington, D.C.: 54 miscellaneous used foreign postage stamps and covers (240129).

Kelly, George F. (See Interior, U.S. Department of the)

Kelly, Kenneth L., Bethesda, Md.: 45 textile and costume items, including wedding clothing from 1906 (241343).

Kemble, Mrs. Caroline H., Claremont, Calif.: Quaker dress and bonnet and child's dress of the 19th century (237083).

Kempf, Father Walter W., São Paulo, Brazil: 64 ants from South America (240066, exchange).

Kennedy, Fred C., Rochester, Minn.: Emerald crystal from Muzo, Colombia, 176.66 carats (240658).

Kennedy, Harry D., Bishop, Calif.: 37 caddis-fly larvae from California (240813).

Kennedy, President John F., Washington, D.C.: Leopard skin from Nigeria (237016).

Kennedy, Mrs. Joseph P., New York, N.Y.: Dress worn by Mrs. Joseph Kennedy when she was presented at Court when her husband was Ambassador to Great Britain and again at the Inaugural Ball of her son, President John F. Kennedy (236610).

Kentucky, University of, Lexington, Ky.: 23,855 treehoppers comprising the W. D. Funkhauser collection (237824).

Kessel, Dr. Edward L., San Francisco, Calif.: 1,000 biting midges from Canada (238702).

Kestner, Floyd B., Washington, D.C.: 4 pieces of photographic equipment (240291).

Keur, Dr. Dorothy (See Keur, Dr. John)

Keur, Drs. John and Dorothy, New York, N.Y.: 77 archeological items from the Netherlands Antilles (240033).

Kidwell, V., Silver Spring, Md.: Fish from off Point Lookout, Md. (239430).

Kieffer, Joseph (See Scheller, Irving)

Kiln Club of Washington, The, Washington, D.C.: 12 bowls, 4 bottles, vase, jug, sculpture, tureen, ceramic cat, chess set (241794); (through Ralph R. Fast) stoneware plate designed and produced by Toshika Takaezu (239333).

Kimble Glass Co., Vineland, N.J.: (Through J. J. Moran) 6 reproductions of 17th-century glassware (230796).

King, Marian, Washington, D.C.: Pair of slippers and portions of a wedding dress of about 1900 (238835).

King, Mrs. Milton W. (See Sanders, Siegfried)

King, Robert M. (See Texas, University of)

Kinghorne, Mrs. Edna, Washington, D.C.: 4 valentines and a portion of a newspaper of the 19th century (237274).

Kingslake, Dr. R., Rochester, N.Y.: 5 Eastman Kodak lenses mounted in shutters (238988).

Kinzer, Dr. G. D., Washington, D.C.: 81 miscellaneous insects from Montana (238132).

Kisch, Dr. Bruno, Brooklyn, N.Y.: 8 weights (239022).

Kiser, Dr. James V. L., McLean, Va:. 4 mollusks from Michelmas Reef, North Queensland, Australia (240549).

Kissinger, Dr. David G. (See Atlantic Union College)

Klapthor, Frank (See Atkins, Mrs. Harriet Ann)

Klawe, Dr. W. L. (See Inter-American Tropical Tuna Commission and Scripps Institution of Oceanography)

Klein, Mrs. Allen J., Dallas, Tex.: Child's water fountain, Swiss pewter *Brunkessi* (236783).

Klein, George, Vincennes, Ind.: 3 U.S. precanceled stamps bearing the "Cincinnati, Olho" error (236795).

Kler, Dr. Joseph H., New Brunswick, N.J.: 634 Rotary International commemorative postage stamps (237518).

Kling Photo Corp., New York, N.Y.: (Through Kurt W. Luhn) Minox transparent camera and a display case with complete exploded Minox camera assembly (241889).

Klinger, Robert L., Washington, D.C.: 2 political bombs (238745).

Klots, Dr. Alexander B., New York, N.Y.: 2 small moths from North America (238122).

Knez, Dr. Eugene I., Washington, D.C.: Coral poi pounder from Saipan and a pottery head (236917, 239907).

Knobloch, Prof. Irving (See Michigan State University)

Knowles, James Adams, Jr., Baltimore, Md.: 98 letters and documents that belonged to donor's great grandfather, ca. 1847–67, 2 certificates of appointment as First and Second Asst. Engineer, ca. 1851–53 (240141).

Knowlton, Dr. George F., Logan, Utah: 46 aphids, including 11 holotypes, 2 cotypes, and 17 paratypes from the U.S., and 2 scarab beetles from Utah (238648, 238704, 240273, 240735).

Knull, Dr. J. N., Columbus, Ohio: 46 scarab beetles from southwestern U.S. (240843).

Kobayashi, Dr. Teiichi (See Tokyo, University of)

Kocher, Mrs. Eric, Amman, Jordan: 57 miscellaneous insects from Jordan (238677).

Koehler Manufacturing Co., Marlboro, Mass.: (Through W. S. Field) 18 safety lamps (236603).

Kohls, Dr. Glen M. (See Health, Education, and Welfare, U.S. Department of)

Komarek, E. V., Thomasville, Ga.: 55 mammals from eastern Canada and 13 loaves of Indian bread from southwestern U.S. (241764).

Kooken, Olive, Union City, N.J.: 35 costumes of Minnie Maddern Fiske, paintings, posters, and photographs of Mrs. Fiske (234377).

Kopp, Dr. Otto C. (See Oak Ridge National Laboratory)

Kosinsky, Anna M. (deceased): (Through Riggs National Bank) frame containing 4 medals of award and insignia in connection with the Napoleonic Wars, 1813–15 (236283, bequest).

Kovanda, Jerry J. (See Paillard Incorporated).

Koyama, Dr. Tetsuo (See Tokyo, University of)

Krader, Mrs. Lawrence, Washington, D.C.: Bohemian bagpipe (239343).

Kramer, Dr. C. L. (See Kansas State University)

Kramer, Dr. J. P., Washington, D.C.: 206 miscellaneous insects from Morocco (241870).

Krantz, Dr. G. W., Corvallis, Oreg.: 2 slides of mites, holotypes, from Central America and Oregon (241576).

Kraus, Dr. Otto (See Senckenbergische Naturforschende Gesellschaft)

Krauss, N. L. H., Honolulu, Hawaii: 42 phanerogams, 11,564 miscellaneous insects from Central and South America, and 7 leafminers and a parasitic wasp from Brazil (236589, 238651, 239216, 240275, 241655).

Kremer, Dr. Michel, Strasbourg, France: 50 slides of biting midges from Africa and France (241776, exchange). (See also Institut de Parasitologie)

Kridler, Eugene (See Interior, U.S. Department of the)

Kring, Dr. James B. (See Connecticut Agricultural Experiment Station)

Krinov, Dr. E. L. (See Academy of Sciences of the U.S.S.R.)

Krishna, Dr. Kumar, Chicago, Ill.: 13 termites, paratypes or morphotypes, from El Salvador, Mexico, and Trinidad (238650).

Krombein, Dr. Karl V., Washington, D.C.: 236 wasps and flies, including holotype, from various localities, and 45 miscellaneous insects from North Carolina, Virginia, and West Virginia (237580, 241276, 241504, 241718).

Krombein, Dr. Louis H., Derby, N.Y.: 11 invertebrate fossils from the Middle Devonian of Erie Co., N.Y. (239234).

Kruťa, Dr. T. (See Moravian Museum V Brně)

Kubisch, Fritz, Culver City, Calif.: 6 phanerogams from Mexico (236596).

Kuehne, Dr. Robert A., and Barr, Dr. Thomas C., Jr., Lexington, Ky.: 9 crayfishes (241020).

Kuhne, Dr. Walter G. (See Freie Universität Berlin)

Kuntz, Dr. Robert E. (See Defense, U.S. Department of)

Kurczewski, Frank, Ithaca, N.Y.: 2 wasps from North America (241506).

Kyoto University, Kyoto, Japan: (Through Dr. M. Tagawa) 288 ferns from Japan (241418, 241564, exchanges). *Misaki Marine Biological Institution:* (Through Masato Akazaki) 12 miscellaneous fishes from Japan (237534, exchange).

Kyte, David J., and Lafayette, Louis, St. Clair Shores, Mich.: 5 fluorites from Ohio (238104). (See also Lafayette, Louis)

Kyushu University, Fukuoka, Japan: (Through Prof. Keizo Yasumatsu) 8 ants and bethylid wasps from Japan (238658).

Laboratoire Forestier de l'Etat, Gembloux, Belgium: (Through Dr. Joseph Fouarge) 106 wood specimens (236854, exchange).

Laboratorium voor Parasitologie, Leiden, Netherlands: (Through Dr. C. F. A. Bruijning) 2 fresh-water mollusks from Surinam (232789).

Ladd, Dr. Harry S. (See Matschak, Mrs. Gertraud, and National Academy of Sciences)

Ladden, John J. (See O. S. Walker Co., Inc.)

Lafaurie, Prof. Jean, Paris, France: 7 assignats issued by the French National Assembly during the French Revolution (239647).

Lafayette, Louis, and Kyte, David J., St. Clair Shores, Mich.: Fluorite from Paulding Co., Ohio (238975). (See also Kyte, David J.)

Lafferty, J. M. (See General Electric Co.)

Laffoon, Dr. Jean L., Ames, Iowa: 45 flies, holotypes and allotypes, from North America (239281).

Laird, Dr. Marshall, Quebec, Canada: Slide of protozoans, 5 marine invertebrates, and 2 blood parasites of fish, types, from St. Andrews, New Brunswick, Canada (236424, 237296, 238222).

Laird, Dr. R. W. (See West Virginia University)

Lake, Robert W., Newark, Del.: 16 midges from North America (239125).

Lakshman, Mrs. Jaya, Orissa, India: Pipe base and stem, and a mouthpiece from India (241755).

Lambers, Dr. D. Hille Ris, Bennekom, Netherlands: 15 plant lice from Asia, Europe, and North America (241288).

Lambert, Benjamin, Woodstock, Va.: Fiddle bow broadcast seeder (240745).

LaMont, Robert E., Arlington, Va.: trunk (240680).

Land, Mrs. Shirley W., Great Neck, N.Y.: Spring planishing hammer and block (237599).

Landis, C. E., Newburgh, N.Y.: Chauncey Jerome shelf clock (236664).

Lane, Dr. John, São Paulo, Brazil: 14 fungus gnats and 7 biting flies from the Neotropics (238700, 240063).

Lane, Mrs. Nathanial T. (See Spalding, Francis O.)

Lang, Dr. Karl (See Naturhistoriska Riksmuseet)

Langdon, Mrs. John (See Brown, Dr. William A., Jr.)

Lansing, C. H. (See General Electric Co.)

Lapointe Machine Tool Co., Hudson, Mass.: (Through J. P. Crosby) 4 broaches and broached pieces (236801).

Larder, Walter, Jr., Canandaigua, N.Y.: 60 German Army items, including insignia and equipment, wooden shoes, and currency (241873).

Law, Mrs. Jay, Garland, Utah: Individual of the Garland, Utah, meteorite (237930).

Law, Lewis F. (See Palmer, Crystal)

Lawry, Eda J., Friendship, Maine: Half-model of Morse seiner *Kennebec* (241911).

Laybourne, Mrs. Roxie C. (See Interior, U.S. Department of the)

Leach, Bernard Howell, St. Ives, Cornwall, England: Stoneware bottle (241793).

League of Women Voters of the United States, Washington, D.C.: (Through Saral Teilhet) menu and program from the "Suffrage Luncheon of the Empire State Campaign committee" (236605). (See also Monohon, Mrs. Paul, and Morrisson, Mrs. James W.)

Leanza, Dr. Armando F., Buenos Aires, Argentina: 5 brachiopods from the Tertiary of Santa Cruz Province, Argentina (237573).

Learnard, R. A., Washington, D.C.: 12 skeletons and a skin of exotic game birds (239909).

Leatherman, Mrs. Sylvia B., South El Monte, Calif.: 6 ferns (237562).

Lee, Byung (See Agricultural and Mechanical College of Texas)

Leech, Hugh B. (See California Academy of Sciences)

Legum, Mrs. Leslie, Baltimore, Md.: 2 oyster plates with the design of the state service used during the Rutherford B. Hayes administration (240133).

Lehman, Rev. Thomas H., Newton, Mass.: 48 crabs from the Miocene of Gay Head, Mass. (238114).

Lehmann, Manfred R. (See Inter-Governmental Philatelic Corp.)

Lemaire, Dr. Robert J., Grand Island, Nebr.: 125 phanerogams, 36 grasses, 1 fern from Louisiana (233164).

Lempert, Dr. Julius, New York, N.Y.: Collection of personal memorabilia, instruments, and anatomical preparations (227302).

Lenz, Dr. Alfred (See California Standard Co.)

Lenzen, Dr. Victor (See Commerce, U.S. Department of)

Leonard, E. C., Washington, D.C.: 400 phanerogams from Washington, D.C. (239003).

Leopold, Alice K.: (address unknown): (Through Dr. O. L. Harvey) 5 philatelic items (239187).

Leuschner, R. H., Gardena, Calif.: 2 moths from California (238670).

Levi-Castillo, Dr. Roberto, Quayaquil, Ecuador: 564 slides of mosquitoes from South America (238697).

Lewis, A. M., Silver Spring, Md.: Ilmenite in epidote from Broad Run, Loudoun Co., Va., and an echinoid from Pennsylvania (237571, 238632).

Lewis, Dr. Alan (See Hawaii, University of)

Lewis, Col. B. R., Vista, Calif.: 2 pieces from an 18th-century Regal organ (236679).

Lewis, Dr. David J. (See Great Britain, Government of)

Lewis, Mrs. Elizabeth, Washington, D.C.: Marlin Model 1894 rifle (237341).

Lewis, Mrs. F. M., Washington, D.C.: Premo folding plate camera, Kodak Autographic No. 3–A folding camera, and 26 costume and textile items, 19th and 20th centuries (241724, 241895).

Lewis, Dr. John B. (See McGill University)

Lewis, Lady, Washington, D.C.: 3-piece mantel garniture (236601).

Lewis, Dr. Thomas H., Bethesda, Md.: 8 phanerogams from Mexico (225420).

Lewis, Dr. Walter H. (See Stephen F. Austin State College)

Libby, Dr. W. F., Los Angeles, Calif.: Discovery sample for radiocarbon in nature, radiocarbon dating sample, and first low-level counter (238501).

Library of Congress, Washington, D.C.: Color lithograph of *The Bridge at St. Louis*, 1874 (240142); portrait of George Washington (240681); U.S. Post Office Department presentation folder containing a complete sheet of fifty 4-cent Nursing commemorative stamps (240683); 1,433 miscellaneous philatelic covers and other memorabilia from the Mangum, Ewing, and Toner correspondence (241740); (through Nathan R. Einhorn) folder containing portrait of Ignace Jan Paderewski bearing 2 U.S. Paderewski postage stamps canceled Nov. 6, 1960 (236940); (through Dr. L. Quincy Mumford) 375 philatelic covers extracted from the Boardman, Moore, McKinley, and Harrison papers; 489 miscellaneous U.S. and foreign covers bearing postage stamps, and 357 coins, mostly German emergency World War I issues (236797, 238751, 241683). *Stamp Club:* (Through Nathan R. Einhorn) 205 miscellaneous used foreign postage stamps (238749).

Light House Board, Washington, D.C.: 2 prints of lighthouses (239366).

Lima, Dr. Dardano de A. (See Jardim Botanico do Rio de Janeiro)

Lin, Dr. Shu-yen, Tegucigalpa, Honduras: 8 fishes from El Salvador (239778).

Linde Company, New York, N.Y.: (Through L. J. Berolatti) 4 welded rail samples (240153).

Lindquist, Harry L., New York, N.Y.: 2,316 U.S., foreign, United Nations, Europa, and miscellaneous covers and presentation folders (237896, 240121).

Lindner, Mrs. E. O., Dunedin, Fla.: 2 brackish-water mollusks from Florida (239854).

Lindroth, Dr. Carl H., Lund, Sweden: Carabid beetle, paratype, from Newfoundland (238655).

Ling, Prof. Shun-sheng (See Institute of Ethnology)

Lingebach, John C. (See Grim, James K.)

Little, Dr. Elbert L., Jr. (See Agriculture, U.S. Department of)

Little, Frank J., Jr. (See Institute of Marine Science)

Little, Mrs. William H., Minneapolis, Minn.: Paymaster epaulets, metal box, and a sword knot, 19th century (240753).

Littlewood, William H. (See Defense, U.S. Department of)

Littman, Lt. Col. A. A. (address unknown): (Through Sidney D. Haas) 16 World War II distinctive insignia (241584).

Livingstone, Dr. D. A. (See Duke University)

Lligoña, Don Pedro Vegué (See Gabinete Numismático de Cataluña)

Lloyd, Reginald J., Bideford, North Devon, England: 4 sgraffito-decorated kiln wasters of the 17th century salvaged from trench in Bideford (236781).

Lockwood, Mrs. Charles A., Monte Sereno, Calif.: 5 Spanish and British insignia (239661).

Lodge, Mrs. John E., Washington, D.C.: 4 pieces of Bohemian glass, 10 pieces of Sevres porcelain, and 8 pieces of Worcester porcelain (241796).

Loeb, Dr. Walter M., Mercer Island, Wash.: 4 obsolete stock certificates issued by the Missouri, Kansas, and Texas Railway Co., and a U.S.S.R. handbill concerning a Government Bond issue (241834).

Loeblich, Dr. Alfred R., Jr., La Habra, Calif.: 2 slides containing Recent Foraminifera, neotypes, from the Italian coast (241715).

Logan, Belle E., Washington, D.C.: 2 philatelic covers (238750).

Logan, Mrs. John, Washington, D.C.: Sapphire, 423 carats (234559).

Longwood Gardens, Kennett Square, Pa.: 8 cultivated ferns (236332); (through Dr. Donald G. Huttleston) 14 phanerogams (235269, 237031).

Los Angeles County Museum, Los Angeles, Calif.: (Through Dr. Lloyd M. Martin) 6 butterflies and moths from Arizona and California (238649).

Los Angeles State and County Arboretum, Arcadia, Calif.: (Through Austin Griffiths, Jr.) 6 phanerogams (236934).

Lothrop, Dr. Samuel K. (See Harvard University)

Louisiana State University, Baton Rouge, La.: (Through Dr. George H. Lowery, Jr.) yellow rail (240004, exchange).

Louisville, University of, Louisville, Ky.: (Through Jack A. Seilheimer) 3 algae (234514).

Loupekine, Prof. I. S. (See Royal College, Nairobi)

Loveridge, Arthur, St. Helena Island, South Atlantic: 334 marine invertebrates and a "stump" lobster (234002, 235689).

Lowder, Thomas, Altus, Okla.: 12 millipedes from Oklahoma (236459).

Lowery, Dr. George H., Jr. (See Louisiana State University)

Ludbrook, Dr. Nell H. (See Australia, Government of)

Ludwig, Edward J., III, Elkton, Md.: Gong, 2 letter carrier cap badges, and brass Post Office window plate reading "stamps" (236600, 237337).

Luhn, Kurt W. (See Kling Photo Corp.)

Lundeberg, Dr. Philip K., Annapolis, Md.: Naval service dress uniform and U.S. Navy helmet, ca. World War II (237597, 239190).

Lundell, Dr. C. L. (See Texas Research Foundation)

Lurton, Sallie Evans, Washington, D.C.: Infant's slip and small girl's dress of the turn of the 19th century (237489).

Lyman, Frank, Dozier, Ala.: 12 marine snails from Skagit Co., Wash. (236877).

Lyon, Paul L., Woodland Hills, Calif.: Bust of Elias Howe and sewing machine (236888).

Lyon, Prof. Robert J., Los Angeles, Calif.: 100 chalcid flies from California (240985).

Maa, Dr. T. C. (See Bishop Museum, Bernice P.)

MacDougall, T., Tehuantepec, Oaxaca, Mexico: 3 phanerogams from Mexico (240597).

Mackenzie, Roy J., Cranston, R.I.: Screwdriver, 1882 (238756).

Mackerras, Dr. I. M., Canberra, Australia: 36 flies from Australia and India, including a paratype (229753, 236520, 240264).

MacMaster, D. M. (See Museum of Science and Industries)

MacMillan, Mrs. James H., Washington, D.C.: Double-woven jacquard coverlet (237317).

Maffi, Dr. Mario, Brazzaville, Republic of the Congo: 2 mosquitoes from Africa (238654).

Magee, Mrs. Richard, Austin, Nev.: Lot of potsherds from Nevada (236772).

Magruder, Mrs. John K., Washington, D.C.: Hitchcock spinet (241783).

Maguire, Dr. Bassett, New York, N.Y.: Wood sample (236637). (See also New York Botanical Garden)

Magyar Àllami Földtani Intézet, Budapest, Hungary: (Through Dr. Jozsef Fülöp) 3 fossil echinoids from the Senonian of Bakony (236576).

Mahler, William F. (See Hardin-Simmons University)

Mahood, Robert P. (See Potomac Speleological Club)

Maier, Mrs. Lilian T. (deceased); (Through Mrs. Harry A. Woodworth) Eisemann radio (240146, exchange).

Maine Forest Service, Augusta, Maine: (Through Dr. A. E. Brower) 28 moths from Maine (240055).

Malaya, Federation of: (Through Haji A. Mubin Sheppard) 14 musical instruments, 14 shadow play figures, and a top (241935). *Forest Department:* 181 phanerogams from Malaya (240090, exchange).

Malkin, Stuart J., East Orange, N.J.: 20 United Nations covers (241181).

Mamay, Dr. Sergius H. (See Interior, U.S. Department of the)

Mangor, Elovius (See Norway, Government of)

Mann, Frederick M., Jr. (See Hitchcock, Frank H.)

Mann, William (See E. Leitz, Inc.)

Mann, Mrs. William M., Washington, D.C.: 173 archeological and ethnological items from various localities; also 8 mollusks (241759).

Manning, Raymond B., Miami, Fla.: 2 stomatopods (241042). (See also Miami, University of)

Manson, D. C., Levin, New Zealand: (Through Dr. E. W. Baker) 2 scarab beetles from New Zealand (240269).

Manville, Dr. Richard H. (See Interior, U.S. Department of the)

Marche-Marchad, Dr. I. (See Institut Français d'Afrique Noire)

Marcus, Prof. Ernesto, São Paulo, Brazil: Flatworm (235668).

Marcy, Donald E., Youngstown, Ohio: Parasitic helminth worm from heart of a frog (235219).

Marden, Luis, Washington, D.C.: Crab from Tahiti (236992).

Marine Biological Laboratory, Trivandrum, India: (Through Dr. N. Krishna Pillai) 4 copepods (237548, exchange).

Marine Laboratory, Aberdeen, Scotland: (Through Dr. Z. Kabata) 58 parasitic copepods (239785, exchange).

Marine Laboratory, The (See Banks, Mrs. Margot Blaisdell)

Markert, Mrs. C. R. (See Ishpeming Rock & Mineral Club)

Marnier-Lapostolle, Julien, Paris, France: 5 phanerogams (236587, 236594).

Marshall, Byron C., Hot Springs National Park, Ark.: 20 land snails, 6 pearly fresh-water mussels, and 26 nematode worms and 6 leeches from a red-eared turtle from Arkansas (238425, 238442, 238529, 240595).

Marshall, Dr. J. T., Jr. (See National Academy of Sciences)

Marshall, Laurence K., Cambridge, Mass.: 102 bats from Bechuanaland (240173).

Martin, Kermit, Bryson City, Ga.: 4 corundum specimens from Mason Mines, Macon Co., N.C. (238635).

Martin, Dr. Lloyd M. (See Los Angeles County Museum)

Martin L. Ehrman Co., Beverly Hills, Calif.: 10 gems and minerals from Brazil and Burma (236010, 237424, 239442, 239517, exchanges); 7 minerals from Brazil (240037).

Martinez, Mr. and Mrs. J. A., Sr., Long Beach, Calif.: Silk wedding dress of 1904 (240205).

Maryland, University of, College Park, Md.: (Through Dr. Howard E. Winn) spiny lobster (237620). *Natural Resources Institute:* (Through Dr. Frank J. Schwartz) 49 copepods (238839). *School of Medicine:* (Through Dr. Charles L. Wisseman, Jr.) 4 small mammals from Pakistan (240901).

Marzolf, G. Richard (See Michigan, University of)

Mason, Lou, Naples, Fla.: 11 marine mollusks from Florida (240203).

Massachusetts, University of, Amherst, Mass.: (Through Dr. M. E. Smith) 3 holotypes of brown lacewings from western North America (240900).

Massachusetts Institute of Technology, Cambridge, Mass.: (Through Prof. A. L. Hesselschwerdt, Jr.) Carré ice machine, ca. 1870 (241904).

Massingill, Alvin Roderick, Houston, Tex.: .32 caliber Colt revolver (235902).

Massmann, William H. (See Virginia Fisheries Laboratory)

Masson, Mary G., Washington, D.C.: 2 petticoats of the 19th century (239084).

Matschak, Mrs. Gertraud, Württemberg, Germany: (Through Dr. Harry S. Ladd) block of fossil millipedes from the upper Miocene of Germany (237747).

Matthews, Mary Pearce, Washington, D.C.: 56 miscellaneous U.S. and foreign philatelic covers and postage stamps (236647).

Maxwell, Mrs. Russell L., Washington, D.C.: Doll of about 1820 (237119).

McAlister, Frances, Clemson, S.C.: 2 flat bugs from South Carolina (240623).

McAloney, S. H. (See Ford Instrument Co.)

McAlpine, Dr. J. F. (See Canada, Government of)

McArthur, Mrs. W. E., Jacksonville, Fla.: 4 phanerogams and 2 ferns (236190, 240600).

McCabe, Henry J. (See McCabe Boiler Corp.)

McCabe, Col. Robert E. (See Defense, U.S. Department of)

McCabe Boiler Corp., Newark, N.J.: (Through Henry J. McCabe) Hilles & Jones radial drill of the late 19th century (238019).

McCall, D., South Boston, Mass.: 280 miscellaneous U.S. precancel stamps (236655).

McCall, Francis J., Washington, D.C.: 61 miscellaneous U.S. and foreign philatelic items and a 1459 cover of Venetian Merchant Guild from Florence to Venice (240131, 241739).

McCall, Johnson V. (See National Association of Watch and Clock Collectors)

McCarthy, Mrs. Eileen (See Smithsonian Institution)

McClure, Dr. H. Elliott, Kuala Lumpur, Malaya: 3 birds (240550). (See also Defense, U.S. Department of)

McConnell, Father Bernard (See Georgetown University)

McConnell, Dr. Rosemary H., London, England: 37 miscellaneous fishes from British Guiana (241201).

McCormack, M. L. (See Ingersoll-Rand Co.)

McCormick-Goodhart, Leander, Alexandria, Va.: 278 plaster casts of Admiral Vernon medals (238470).

McCoy, Dr. Clarence J., Jr. (See Colorado, University of)

McCoy, Dr. D. O. (See Defense, U.S. Department of)

McCullough, Dr. Herbert A., Birmingham, Ala.: 18 lichens from Alabama (241494).

McDermott, Frank A., Wilmington, Del.: 5 fireflies, paratypes and holotype, from Argentina and Missouri, 7 Coleoptera from India and South America, and 158 miscellaneous insects from Chile and India (238134, 240676, 241293).

McDonald, Rev. Msgr. William J. (See Catholic University of America)

McDowell, J. C., Cannonsburg, Pa.: Miniature steam engine, ca. 1800 (237077).

McErlean, Andrew J. (See Florida State Board of Conservation)

McEwen, Mrs. Jack A., Megargel, Tex.: Dorsal vertebra of a fossil amphibian from the lower Permian of Texas (238168).

McFarland, Wallace B. (See Becklake, J. T.)

McFarlin, Ray H., Chapmanville, W. Va.: Miner's lamp (233426).

McGaha, Dr. Young John, University, Miss.: (Through Dr. Bruce B. Collette) 23 fresh-water fishes from Mississippi (237419).

McGahey, Mrs. Charles N., Washington, D.C.: Purse with frame used by donor's great aunt at Lafayette's ball and 3 books of the late 19th century (237889).

McGarry, M/Sgt. George, Quantico, Va.: Labor Classification Form (Wake-10) with "Training Candidates Evaluation Record" printed in Japanese on reverse side (237900).

McGill University, Montreal, Canada: *Bellairs Research Institute:* (Through Dr. John B. Lewis) 36 marine invertebrates, and 4 sea anemones (237653, 238094). *Macdonald College:* (Through Dr. Larry S. Roberts) 14 copepods (239240).

McGinnis, Robert H., Manset, Maine: Howard and Davis banjo clock (240494).

McGowan, Dr. John A. (See Scripps Institution of Oceanography)

McHenry, G. Ruth, Savannah, Ga.: 22 items of costume and needlework of the 19th and 20th centuries (238478, 241104).

McKeena, Boston Fear, Denton, Md.: Wedding invitation to the marriage of President and Mrs. Woodrow Wilson's daughter, 1913, and a Maryland State ticket for 1860 (241308, 241899).

McKinley, Thomas W., Clearwater, Fla.: 3 bird skins, 6 spiders, and 2 centipedes from Haiti (237576, 238663).

McLean, Roy (See Cobb & Drew, Inc.)

McNairn, S., Monroe, Mich.: 6 sulphur specimens from Maybee, Mich., and analcite cast from Ontario, Canada (238639).

McPherson, George (See U.S. Steel Corp.)

McRae, Dr. Ernest D. (See Interior, U.S. Department of the)

McSorley, Charles H., Jr., Closter, N.J.: "Centennial Presidential Game" (240132).

Mead, Dr. Giles W. (See Harvard University)

Means, Carroll Alton, Woodbridge, Conn.: 3 turnpike tokens, ca. 1800, and a reproduction of the first Christmas card, 1843 (237321).

Medal of the Month Club, Sioux Falls, S. Dak.: (Through Token and Medal Society) 15 nickel-silver commemorative medals issued by donor from January 1961–March 1962 (241902).

Medallion Distributors, Inc., Penfield, N.Y.: (Through Token and Medal Society) silver medallion commemorating the "Uncle Sam" Sesquicentennial 1962 (241734).

Medical Research Institute, Colombo, Ceylon: (Through Dr. K. Gunawardane) 15 scarab beetles from Ceylon (239641).

Meese, Norman S., Kensington, Md.: 15 marine mollusks from Saipan, Marianas (239285).

Meggers, Dr. Betty J. (See Evans, Dr. Clifford, Jr., and Walter, H. V.)

Mehra, Dr. P. C., Memphis, Tenn.: 5 used postage stamps of India (239154).

Mehring, Dr. Arnon L., Hyattsville, Md.: 11 marine mollusks from Texas and 4 land snails from northern Idaho (234126, 240548). (See also Floyd, Mrs. J. L.)

Mehta, Dhirubhai, Bombay, India: 20 mint stamps and 13 first-day and first flight covers of India (235666, 240328).

Meijer, Dr. W. (See Forest Department and North Borneo, Colony of)

Melbourne, University of, Victoria, Australia: (Through Mrs. S. L. Thrower) 18 lichens from Australia (237102).

Melburn, M. C., Victoria, B.C., Canada: 10 lichens from Vancouver Island (233217, 237537).

Mellon Institute, Pittsburgh, Pa.: (Through Dr. Alvin Cohen) 42.5-gram moldavite from Habri, Bohemia (236302, exchange).

Melson, William, Baltimore, Md.: Lamprophyllite with eudialite, and natrolite from Montana (240237, 240251).

Menke, Henry, Houston, Tex., and **Choppin, Sam** (address unknown): (Through Dr. Edward Norbeck) 36 potsherds and a vessel (239908).

Mennehan, John F. (See Fuller & d'Albert, Inc.)

Merriam, C. W. (See Interior, U.S. Department of the)

Merrill, Arthur S. (See Interior, U.S. Department of the)

Merrill, Mrs. H. A., Washington, D.C.: 2 wolf rugs (238369).

Messer, P. T. (See American Express Co., Inc.)

Messina, Mr. and Mrs. Pete Paul, Mitchellville, Md.: Recording horn (238490).

Mettler Instrument Corp., Princeton, N.J.: (Through Thomas C. Douglas) Mettler B–5 laboratory scale (238818).

Meuse, R. F., Punta Gorda, Fla.: 1837 U.S. large cent (239995).

Meyer, Dr. D. E. (See Botanischer Garten und Museum)

Meyer, Dr. Frederick G. (See Agriculture, U.S. Department of)

Miami, University of, Miami, Fla.: (Through Raymond B. Manning) stomatopod crustacean and 15 corals (229955, 236449); (through Donald R. Moore) 35 tanaids and an amphipod (238021); (through Anthony J. Provenzano, Jr.) hermit crab (236422); (through Dr. C. Richard Robins) 13 sharks from off Florida (238052); (through Jeff Strumpf) 18 copepods (237491); (through Dr. Gilbert L. Voss) 6 nudibranch mollusks, holotypes, from Florida (238289).

Michener, Dr. C. D. (See Kansas, University of)

Michigan, University of, Ann Arbor, Mich.: 370 phanerogams, 6 grasses, and 8 ferns from Alaska, Canada, and Mexico (236598, 239296, exchanges); (through Dr. Reeve M. Bailey) 3 fishes from Michigan (230907, exchange); (through Dr. William S. Benninghoff) 25 microscope slides of pollen (240728, exchange); (through Dr. D. M. Dennison and Prof. H. P. Crane) 11 Williams' magnetron tubes (240147); (through Arthur Dockrill) 10 scientific instruments (239024); (through G. Richard Marzolf) 56 amphipods (238838); (through Dr. Robert R. Miller) 44 fishes, including paratopotypes and topotypes, from Mexico (236388, exchange); (through Prof. Richard E. Townsend) 11 pieces of chemical apparatus (239025); (through Prof. W. H. Wagner, Jr.) fern from Arkansas (241166, exchange).

Michigan State University, East Lansing, Mich.: Grass from Mexico

(237238); 437 phanerogams, 55 grasses, and 23 ferns from Alaska (241262, exchange); (through Prof. Irving Knobloch) fern (237851).

Mick, Mrs. Ada C., Merchantville, N.J.: 16 items of costume material of the 19th and 20th centuries (236454).

Mick, Charles A., Collingswood, N.J.: Spanish Naval flag from Spanish-American War period (241881).

Mielke, Russell (See Smithsonian Institution)

Miles, Mrs. Arnold, Washington, D.C.: Political umbrella, wood clamp, 18 political campaign items associated with Governor Nelson A. Rockefeller, whetstone holder, letter of 1827, and bandanna of 1876 (236643, 241307).

Miles, Mrs. Jack C., Colfax, Calif.: Double woven coverlet, 1847 (237217).

Miller, C. D. F. (See Canada, Government of)

Miller, Harry C., Rochester, N.Y.: 7 locks (237603).

Miller, Harry F., Oceanside, Calif.: Tourmaline from El Alamo, Baja California, Mexico (236568).

Miller, Mahlon, New York, N.Y.: 1 lot of chrysoberyl pebbles from the Central African Republic (240246).

Miller, Ralph, York, Pa.: Early Indian ax head, Cherokee pottery pipe bowl, and Crow Indian doll's saddle bag and needle case (236773, 236915).

Miller, Dr. Robert R. (See Michigan, University of)

Mills, Mrs. H. N., Clearwater, Fla.: Pair of satin slippers of 1874 and 4 pieces of silver (236761).

Milwaukee Public Museum, Milwaukee, Wis.: (Through Joseph G. Emielity) amazonite from Tigerton, Shawno Co., Wis. (236775).

Mine Safety Appliances Co., Pittsburgh, Pa.: (Through J. T. Ryan, Jr.) 118 safety and illuminating mining lamps and safety and rescue equipment (240639).

Mine Ventilation Systems, Inc., Madison, W. Va.: (Through James V. Burgess, Jr.) barricade kit (240087).

Mineralogisk Museum, Copenhagen, Denmark: (Through Drs. Sole Munck and Vagn Buchwald) 2 meteorites from Cape York and Thule, Greenland (232400, exchange).

Ministerio de Agricultura y Cria, Caracas, Venezuela: *Instituto Botanico:* 5 phanerogams from Venezuela (236583, exchange); 170 phanerogams mostly from Venezuela (238247, 239040, 240527, 240726); 2 phanerogams from Venezuela (239353, gift-exchange); (through Dr. Leandro Aristeguieta) 67 phanerogams and 3 ferns (232767, 235699); (through Dr. Julian A. Steyermark) 28 phanerogams from Venezuela (240200, 240858, 241203).

Minnesota, University of, Duluth, Minn.: (Through Dr. R. L. Heller) algal chert from the Pre-Cambrian, Enterprise Mine, Minn. (237748).

Minter, Mrs. Judith, Kingskerswell, North Devon, England: 6 pottery sherds excavated from various English sites of the 16th and 17th centuries (236784).

Miranda, Dr. Faustino, México, D.F.: 222 phanerogams from Mexico collected mostly by donor (238731, 239308, 240661).

Miranda-Ribeiro, Dr. Paulo de (See Universidade do Brazil)

Mississippi State College, State College, Miss.: (Through Dr. Ernest E. Russell) 119 fossil echinoids from the Upper Cretaceous of Mississippi (237574, exchange).

Missouri Botanical Garden, St. Louis, Mo.: 167 phanerogams, 16 ferns, 1 cryptogam, and 29 weeds from various localities (233586, 236335, 236336, 236935, 238276, 240692, 241860); (through Dr. James Duke) 24 woods (237029).

Mitchell, John F., Golconda, Ill.: 3 sea shells from Florida (221090).

Mitchell, R. T. (See Interior, U.S. Department of the)

Mitchell, Terry (See Frick Company)

Mizelle, Dr. John D., Sacramento, Calif.: Holotype of a trematode worm from California (240018).

Modjeski & Masters, Engs., Harrisburg, Pa.: Engraving of bridge over the Schuylkill River, 1805 (239368).

Mohammad, Murad-B.M., Beaufort, N.C.: 12 barnacles (235497).

Molina, Sr. Antonio (See Escuela Agricola Panamericana)

Monaco, Government of, Principaute de Monaco: (Through Director-General of Posts) 44 mint postage stamps of Monaco (240122).

Moncure, Mrs. Powhatan, Jr., Arlington, Va.: 6 items of women's clothing of the 19th and 20th centuries (241360).

Monnig, Oscar E., Fort Worth, Tex.: Specimen of the Bells, Grayson Co., Tex., meteorite and magnetic particles (239440).

Monohon, Mrs. Paul, Providence, R.I.: (Through League of Women Voters of the United States) broadside announcing a mass meeting, Oct. 8, 1920 (238027).

Montana State College, Bozeman, Mont.: 2 grasses from Montana (238377); (through Gertrude Prescott) Chippendale mirror frame (237322); (through Dr. George A. Schultz) 8 isopods (239402).

Montignani, Mrs. William C., St. Petersburg, Fla.: 2 memorial rings of 1821 and 1824 (240957).

Montreal Botanical Garden, Montreal, Canada: 6 phanerogams (236595, 239301).

Mooney, Blanche, Brooklyn, N.Y.: 9 foreign covers bearing postage stamps (240115).

Moore, Donald R. (See Miami, University of)

Moore, Dr. Dwight M. (See Arkansas Polytechnic College)

Moore, Dr. H. E., Jr. (See Cornell University)

Moore, Dr. Thomas E., Ann Arbor, Mich.: 6 plant lice from eastern U.S. (221218).

Moran, J. J. (See Kimble Glass Co.)

Moravian Museum V. Brně, Brno, Czechoslovakia: (Through Dr. T. Kruťa) 105 minerals from Moravia (236896, exchange).

Morgan, Mrs. Herbert (See Weinig, Louis J.)

Morgan, Raymond J., Scranton, Pa.: Miner's respirator (236943).

Morgans, Dr. J. F. C. (See East African Marine Fisheries Research Organization)

Morley, Dr. Sylvanus G. (See Mosonyi, Dr. Emilio)

Morrell, Dr. Lester G. (See Interior, U.S. Department of the)

Morrisson, Mrs. James W., Groton, Conn.: (Through League of Women Voters of the United States) Woman's Suffrage cape (239344).

Morrow, J. D. A. (See Joy Manufacturing Co.)

Morse, Dr. Dan, Peoria, Ill.: Miscellaneous lot of bones and 2 pathological skeletons from Fulton Co., Ill. (241252).

Morse, H. H., Fort Worth, Tex.: 3 shatter cone specimens from Sierra Madera Mountains, Pecos Co., Tex. (239905).

Morton, C. V., Washington, D.C.: 4 phanerogams, 3 ferns, and 5 cryptogams (238717).

Mosonyi, Dr. Emilio: (Through Dr. Sylvanus G. Morley and M. A. Otero, Jr.) carved granite "Palma" stone 1923 (213025).

Motoda, Dr. Sigeru, Hakodate, Hokkaido, Japan: 208 amphipods (235496).

Motry, Theodore J., Clearwater, Fla.: 2 marine mollusks from Florida (237793).

Mountaineer Coal Co., Monongah, W. Va.: (Through George R. Higinbotham) coal mining references photo albums (240294).

Mowbray, Louis S. (See Bermuda Government Aquarium and Museum)

Mower, Mrs. Martha Rebecca (See Atkins, Mrs. Harriet Ann)

Mueller, Mrs. Hazel, Miami, Fla.: Phanerogam (236588).

Muesebeck, Dr. Carl F. W., Washington, D.C.: 3 picture post cards, 20 miscellaneous foreign covers bearing postage stamps, and a registration coupon (240344).

Muller, Dr. C. H. (See California, University of)

Müller, Dr. F. P., Rostock, Germany: 13 aphids from Germany (239130).

Müller, Dr. Klaus J. (See Technischen Universität Berlin)

Multhauf, Dr. Robert P., Washington, D.C.: Pump calculator, 19th century (237346).

Muma, Dr. Martin, Lake Alfred, Fla.: 19 slides representing 13 species of mites from Florida (238684).

Mumford, Dr. L. Quincy (See Library of Congress)

Mumford, Dr. Russell E., Lafayette, Ind.: 43 mammals from Indiana (241771).

Munck, Dr. Sole (See Mineralogisk Museum)

Munroe, Dr. E. G. (See Canada, Government of)

Murbarger, Nell, Costa Mesa, Calif.: 4 marine mollusks from the Gulf of Campeche, Mexico (240495).

Murchie, Dr. William R., Flint, Mich.: 5 earthworms (236997).

Murchison, Mrs. Therese V. (See Arizona, University of)

Murillo, María Teresa (See Instituto de Ciencias Naturales)

Murray, Mrs. Anne, Washington, D.C.: 6 U.S. and foreign covers bearing stamps and a wrapper bearing foreign postage stamps (239924).

Murray, Hamilton, La Paz, Baja California, Mexico: Marble bust of Alexander Hamilton (235208).

Musée Zoologique, Lausanne, Switzerland: (Through Dr. J. de Beaumont) insect from Europe (236522, exchange).

Museo de Historia Natural "Javier Prado," Lima, Peru: 14 phanerogams from Peru (237462); 3 phanerogams (237559, exchange); (through Dr. Ramón Ferreyra) 2 phanerogams from Peru (238376).

Museo Zoologico de "la Specola," Florence, Italy: 25 birds skeletons from Albania and Italy (237494, exchange).

Museu Nacional, Rio de Janeiro, Brazil: 41 phanerogams, 71 crytogams, and 11 grasses from Brazil (235274, 236202); 16 ferns from Brazil collected by F. Segadas-Vianna (236410).

Museu Paraense "Emilio Goeldi," Belém, Brazil: 104 phanerogams and 6 grasses from Brazil (236537, 238613).

Museul National de Istoria Naturala "Grigore Antipa," Bucharest, Rumania: (Through Dr. M. Bacescu) 5 mysids (233338, exchange).

Museum G. Frey, Munich, Germany: (Through Dr. E. Haaf) 4 weevils, paratypes, from South America (222332, exchange).

Museum National d'Histoire Naturelle, Paris, France: 4 phanerogams (237032).

Museum of Science and Industries, Chicago, Ill.: (Through D. M. MacMaster) Nasmyth steam hammer, 1851–56 (239078).

Museum Zoologicum Universitatis, Helsinki, Finland: (Through Dr. Richard Frey) 6 flies, worldwide (238393, exchange).

Musselwhite, Susan M., Arlington, Va.: Perfume bottle with silver top of the late 19th century (235871).

Mütter Museum, Philadelphia, Pa.: (Through Mrs. Ella N. Wade) 20 American Medical Association badges (240685).

Myer, Mrs. J. Edson, Milford, Pa.: 6 Eskimo and Pima baskets, 10 Samoan and Marshall Island fans, and a pottery lamp (240976).

Myers, W. T., Birmingham, Ala.: (Through John A. Hill) end-dump mine car (239173).

Nahl, Dr. Perham C., Evanston, Ill.: 5 sections of a collection of first flight airmail covers of the U.S. (239449).

Nakahara, Dr. Waro, Tokyo, Japan: 277 caddis flies from Japan (240602).

Nakamura, Hikaru, Setagaya-ku, Tokyo, Japan: 43 miscellaneous beetles from Japan (236732, exchange).

Namegata, Tomitaro, Chiba-ken, Japan: 44 ferns from Japan (238090, exchange).

Nathan, David, New York, N.Y.: Compur shutter (240293).

National Academy of Sciences, Washington, D.C.: *National Research Council:* (Through Dr. Harry S. Ladd) 4 basalt samples cored in Mohole Project (236267); (through Dr. J. T. Marshall, Jr.) 17 bird, 3 reptile, and 2 mammal skeletons from Ponape Island (238121).

National Aeronautics and Space Administration Grant, Smithsonian Institution: Natural glass from Peru and tektite from Annam (239263, 240893).

National Association of Watch and Clock Collectors, Washington, D.C.: (Through Johnson V. McCall) shelf clock (236661).

National Cash Register Co., Dayton, Ohio: National cash register, cash register side frame, and Natco multiple spindle drilling machine (238759).

National Herbarium, Pretoria, South Africa: 6 grasses from South Africa collected by B. de Winter (237558).

National Museum, Manila, Republic of the Philippines: 530 phanerogams, 17 grasses, 22 ferns, 11 cryptogams, and 4 woods from the Philippines (240093, 241653, exchanges).

National Museum, Prague, Czechoslovakia: (Through Dr. Z. Bouček) 79 chalcid flies from Europe (238131, 240050, exchanges).

National Science Foundation, Washington, D.C.: 8 lots of tektites from Viet Nam (238641).

National Taiwan University, Taipei, Taiwan, China: 2 stem sections of chrysanthemum-flower wood from Taiwan (240809, exchange); (through Ju-Shey Ho) 6 parasitic copepods (236457).

Natural History Museum, San Diego, Calif.: (Through Dr. E. P. Chace) alga, 19 crustaceans, and 40 marine mollusks from California and the west coast of Mexico (238773, 239284).

Naturhistoriska Riksmuseet, Stockholm, Sweden: 19 phanerogams (235134); 180 phanerogams, 4 grasses, and 16 ferns from Peru (240981, exchange); (through Dr. O. Gabrielson) orthopinakiolite from Langban, Sweden (239230); (through Dr. Karl Lang) 9 paratypes of 2 species of copepods (240606, exchange).

Naturwissenschaftliches Museum, Budapest, Hungary: (Through Dr. Sebö Endrödi) 196 scarab bettles, worldwide (239937, exchange).

Nebraska, State of, Lincoln, Nebr.: (Through Dr. William F. Rapp, Jr.) bat from Nebraska (237991).

Needham, Richard M., Lancaster, Ohio: Cachet cover bearing first-day cancellation of the Kansas stamp (240123).

Netherlands, Government of, The Hague: *Netherlands Postal and Telecommunications Service:* 12 mint postage stamps of the Netherlands (239654). *Netherlands Postal Museum:* (Through Dr. R. E. J. Weber) Hughes printing telegraph (238390).

Neuman, Dr. Robert B. (See Interior, U.S. Department of the)

New Canaan Historical Society, New Canaan, Conn.: (Through Dorothy Cocks) dog harness used during the Byrd Antarctic Expedition and the Judicial robe of Charles Evans Hughes (239932).

New England, University of, Armidale, N.S.W., Australia: (Through Dr. J. W. Pickett) 6 corals from the Lower Carboniferous of New South Wales (236578, exchange).

Newhall, Beaumont (See George Eastman House)

New Hampshire, University of, Durham, N.H.: (Through Dr. Marian H. Pettibone) 5 annelid worms and 6 sea anemones (237504, 238069).

New Holland Machine Co., New Holland, Pa.: Portable gasoline engine (240546).

Newkirk, Dr. Herbert W. (See California, University of)

Newman, William A. (See California, University of)

Newton, John G., Winston-Salem, N.C.: Hydrocoral (239396).

Newton, Thomas W., Washington, D.C.: Brick, 18th century (239293).

New York Botanical Garden, New York, N.Y.: 27 cultivated ferns, 62 phanerogams, and 2 grasses from Brazil, Missouri and Nevada (233585, 234495, 236195, 236721, 240533); (through Dr. Bassett Maguire) 6 phanerogams (239592); (through L. P. Politi) 20 cultivated ferns (240201).

New York State University College of Forestry, Syracuse, N.Y.: (Through

Harold A. Core) 41 wood specimens from Africa, Chile, and Germany and 80 microscope slides of wood (237223, 240307, exchanges).

New York University, New York, N.Y.: (Through Prof. Lyle B. Borst) 2 glass plate photographs of the solar spectrum and 2 of observatory scenes (240151).

New Zealand, Bank of, Wellington, New Zealand: 12 documents of value in use at the Bank of New Zealand (241827).

New Zealand, Government of: *Forest Research Institute,* Rotorua: 78 wood specimens from New Zealand (240305, exchange).

Nichols, Lyman (See Hawaii Department of Agriculture and Conservation)

Nickelson, Alden L., Friday Harbor, Wash.: 14 amphipods (235700).

Nicolay, Col. S. S., Carlisle Barracks, Pa.: 445 miscellaneous small moths from Cherry Point, N.C. (238675); 13 butterflies from North America (240271, exchange).

Nikon Incorporated, New York, N.Y.: (Through Len Silverman) Nikon F cutaway camera with Nikkor S lens (238475).

Nisbet, William, Pawtucket, R.I.: One-inch scale (236799).

Nogan, Donald, New Brunswick, N.J.: 89 slides, including 20 of primary types, of Foraminifera from Maryland and Virginia (240812).

Nolan, Dr. Thomas B. (See Interior, U.S. Department of the)

Norbeck, Dr. Edward (See Menke, Henry)

Norman, Mrs. Edith G., Indianapolis, Ind.: Cap, neckerchief, jumper, and trousers worn by Seaman William B. Norman, April 16, 1945 (239783).

Normand, M. D. (See Centre Technique Forestier Tropical)

North Borneo, Colony of: *Forest Department:* (Through Dr. W. Meijer) 73 wood specimens from North Borneo (239610, exchange).

North Carolina State College, Raleigh, N.C.: 5 phanerograms (237736); (through Nathan D. Greene) 2 freshwater mollusks from North Carolina (240860).

North Carolina State Museum, Raleigh, N.C.: (Through Harry T. Davis) bird (238592, exchange).

North Dakota State University, Fargo, N. Dak.: 71 phanerogams and 17 grasses from North Dakota (238553, gift-exchange).

Northern West Virginia Coal Assoc., Fairmont, W. Va.: (Through T. E. Johnson) mule harness with wooden hames (236604).

Norton, Mrs. John O. A., Union City, Mich.: 2 scrapbooks (240905).

Norway, Government of: *Norwegian Embassy:* (Through Elovius Mangor) 9 mint postage stamps, of which 2 are in honor of Roald Amundsen, and a mint letter sheet of Norway (238551, 239211).

Norweb, Mrs. R. Henry, Cleveland, Ohio: 127 Canadian tokens and a proof maundy set struck in the name of Queen Elizabeth II, 1960 (236615, 236616).

O. S. Walker Co., Inc., Worcester, Mass.: (Through John J. Ladden) magnetic chuck (236950).

Oak Ridge National Laboratory, Oak Ridge, Tenn.: (Through Dr. Otto C. Kopp) synthetic iron analog of pollucite (236959, exchange).

Obarrio, Dr. Juan, Panama City, Panama: 2 shrimps (236994).

Oboler, Arch, Studio City, Calif.: 3 minerals from Brazil and Chile (238100, 240242, exchanges).

Oklahoma State University, Stillwater, Okla.: 11 grasses and 4 phanerogams from Mexico (239083, 239304); (through Dr. D. E. Bryan) 4 grass thrips from Oklahoma (240062, exchange).

Old, William E., Jr. (See Burgess, Dr. C. M.)

Olin Mathieson Chemical Corp., Saltville, Va.: (Through L. D. Bradt) 2 salk kettles (235910).

Oliver, Dr. W. A. (See Interior, U.S. Department of the)

Olrog, Claës C., Tucuman, Argentina: Bird skeleton (239325).

Olsen, E. J. (See Chicago Natural History Museum)

Olson, Mrs. Eleanor M. (See Hitchcock, Frank H.)

Olson, Comdr. Paul (See Treasury, U.S. Department of the)

Oman, Dr. Paul W., San Francisco, Calif.: 373 miscellaneous insects from India (238686). (See also Agriculture, U.S. Department of)

Oregon State University, Corvallis, Oreg.: 348 phanerogams, 32 grasses, and 15 ferns mostly from Oregon (237302, 239000, exchanges); (through Dr. David A. Bostwick) 32 brachiopods from the Permian of Oregon (240734); (through Dr. J. N. Shaw) 7 fresh-water snails from Oregon (237941).

O'Rorke, Thomas R., Esmeraldas Province, Ecuador: Head of a pottery figurine from Ecuador (239906).

Ortiz C., Dr. Ignacio, Caracas, Venezuela: 2 mosquitoes from Venezuela (238661).

Otero, M. A., Jr. (See Mosonyi, Dr. Emilio)

Ottawa, University of, Ottawa, Canada: (Through Dr. V. D. Vladykov) fish from off St. Augustine, Fla. (237182).

Oulu, University of, Oulu, Finland: 128 phanerogams, 17 grasses, and 6 ferns from Finland (236986, exchange).

Owrey, Addie Z., Tampa, Fla.: 2 19th-century samplers (236421).

Oxford, University of, Oxford, England: 32 phanerogams (236337).

Oxford University Exploration Club, Oxford, England: 8 phanerogams from Ecuador (236581).

Oxstern, J., Van Nuys, Calif.: Darling, Brown & Sharpe drill gage, 1892 (241842).

Pacheco, Prof. Francisco (See Colegio de Post-Graduados)

Pade, Mrs. Agda E., Denver, Colo.: 89 used and 51 mint postage stamps of Denmark (239656, 240113).

Page, Norman F. (See American Express Co., Inc.)

Paillard Incorporated, New York, N.Y.: (Through Jerry J. Kovanda) Hasselblad Cutaway camera with Zeiss-Planar lens (237043).

Paine, Robert T., III, La Jolla, Calif.: 100 specimens of a modern brachiopod from Florida and 25 brachiopods from Puertecitos, Baja California (236574, 241762).

Pakistan, Government of: *Zoological Survey Department:* (Through Dr. A. R. Ranjha) 73 marine mollusks from western Pakistan (221977).

Pal, Dr. Niranjan, Calcutta, India: Fern from India (238165).

Paleontological Research Laboratory, Statesville, N.C.: (Through Richard Casanova) 842 echinoids from the Tertiary of the Caribbean region and 300 invertebrate fossils from the Paleozoic and Mesozoic of Europe and the Island of Timor (231242, 239107, exchanges).

Palmer, Dr. A. R. (See Interior, U.S. Department of the)

Palmer, Crystal (deceased): (Through Lewis F. Law) 3 tapestries, a bronze medal of 1856, and a letter confirming the entry of Jane Loucks' prize winning needlework (238291, bequest).

Palmer, Herbert B., Lowell, Vt., and **Palmer, J. Winsor** (address unknown): 3 shawls of the 19th century and 4 silver spoons (241518).

Palmer, J. Winsor (See Palmer, Herbert B.)

Pan American Hispano Oil Co., Madrid, Spain: (Through Charles W. Hatten) 350 invertebrate fossils from the Devonian of the Spanish Sahara (237527).

Pan American Petroleum Corp., Tulsa, Okla.: (Through Dr. Donald W. Engelhardt) 642 microscope slides of pollen (240727, exchange); (through Gerald M. Friedman) 2 minnesotaites from Minnesota (240244).

Pan American Union, Washington, D.C.: (Through Philip F. Gallagher) 200 Argentine and Costa Rica mint and used stamps (239251, exchange).

Parfin, Sophy I., Meriden, Conn.: 215 miscellaneous insects from Connecticut and Minnesota (238652).

Parker, Frances L. (See Scripps Institution of Oceanography)

Parks, G. Hapgood, Hartford, Conn.: Reamer used for enlarging previously bored holes in wheel hubs (240635).

Parks, Mrs. Lillian Rogers, Washington, D.C.: 4 dresses and a mirror that belonged to Mrs. Calvin Coolidge, a sandalwood fan owned by President Wilson's daughter, and a chiffon fan owned by Mrs. William H. Taft (234873).

Parsons, Dr. and Mrs. John W., Baltimore, Md.: 2 mollusks, a new species from Aruba, N.W.I. (238331).

Parsons, Margaret, Lucas, Ohio: (Through Dr. Theresa Clay) 2 lice, holotype and allotype, from eastern U.S. (240051).

Paternoster, Alfredo, Rome, Italy: 13 bank and traveler's checks issued by various Italian banks (239649).

Paterson, Peter W., East Paterson, N.J.: Spangolite from Mex-Tex Mine, Socorro Co., N. Mex. (240373, exchange).

Patrick, John, Berkeley, Calif.: Adamite from Tsumeb, Southwest Africa (238108).

Paul, Dr. Lee W., Los Angeles, Calif.: 2 fossil wood specimens containing teredo borings from the Tertiary of Washington (239232).

Pautzke, Clarence F. (See Interior, U.S. Department of the)

Paval, Philip, Hollywood, Calif.: 5 artistic medals (237287).

Pavlovsky, Academician E. N., Leningrad, U.S.S.R.: 2 U.S.S.R. bronze medals commemorating the 150th anniversary of the publication of Jean Baptiste Lamarck's *Philosophie Zoologique,* and commemorating Charles Darwin and the centenary of the publication of his work, *The Origin of Species* (236856, 237284).

Paynter, Dr. Raymond, Jr. (See Harvard University)

Peacock, Daniel (See Peacock, Richard)

Peacock, Richard and Daniel, Fairfax, Va.: 53 mammals from North Carolina and Virginia (241770).

Pearce, Mrs. John (See White House, The)

Peardon, Mrs. Celeste Comegys (See Brunschwig, Mrs. Zelina Comegys)

Pelikán, Dr. Ir. J. (See Czechoslovak Academy of Sciences)

Pell, Hon. Claiborne, Washington, D.C.: Medal of the City of Nîmes (237866).

Pell Fund, Alfred Duane, Smithsonian Institution: Ceramic vase and a stoneware bottle (241786, 241787).

Penman, Penelope, Falls Church, Va.: Hafted stone ax from Australia (240657).

Pennington, Richard, Montreal, Canada: 5 color wood engravings by Leighton Brothers (238476).

Pennsylvania, University of, Philadelphia, Pa. (Through Prof. Claude K. Deischer) Spoerhase analytical balance (239021).

Pennsylvania Fish Commission, Bellefonte, Pa.: (Through Drs. Keen Buss and Frank J. Schwartz) 2 fishes from Pennsylvania (238986).

Pennsylvania Geological Survey, Harrisburg, Pa.: (Through Donald M. Hoskins) 20 slides and 2 matrix specimens, including types, of a new species of ostracode from the Silurian of the Bloomsburg formation, Pennsylvania and adjacent states (241270).

Pennsylvania Railroad, Philadelphia, Pa.: Photograph of bridge at Rockville, Pa., 1896 (240143).

Pennsylvania State University, University Park, Pa.: Grass (241417).

Percy, P. E. (See Baldwin-Lima-Hamilton Corp.)

Perkins, Dr. Bob F., Houston, Tex.: 39 invertebrate fossils from the upper Eagle shale, Upper Cretaceous of Texas (241760).

Perot, T. Morris, III (See Perot Malting Co.)

Perot Malting Co., Philadelphia, Pa.: (Through T. Morris Perot, III) Holloway steam engine, 1819 (239089).

Perry, Kenneth M., Falls Church, Va.: Natural lodestone from the 1914 World's Fair (240818).

Perugino, Michael (See Yale University)

Petersen, Mr. and Mrs. Raymond L., Annandale, Va.: Thomsonite from

Arlington Quarry, Loudoun Co., Va. (240041).

Peterson, Dr. B. V., Guelph, Ontario, Canada: 26 black flies, paratypes, from North America (238126); 7 black flies from North America (239940, exchange).

Peterson, Mendel L., Washington, D.C.: 5 medals commemorating events dating from 1739–1890 (238746, 239664, 240541); condor coin (236608); 6 British tokens of the 18th century depicting various textile industries (238479); 8 trade tokens and 2 hair bracelets of the 18th and 19th centuries (236602, 237650); *Monitor* penny of Civil War era, 1863 (239189); 12 cowrie shells from an underwater shipwreck site west of Bermuda, 1960 (239754); lead trial striking of a medal showing President Grant by Anthony Paquet, 1869 (240326); 43 miscellaneous naval officer's uniforms, insignia, and naval lifesaving equipment of World War II, and 9 additional items dealing with lifesaving equipment (240542); model for the saving of lives at sea and a Carnegie Hero Fund medal (241682).

Peterson, Richard S. (See Johns Hopkins University)

Pettibone, Dr. Marian H. (See New Hampshire, University of)

Petz, Richard A., Alexandria, Va.: Willcox and Gibbs sewing machine of the late 18th century (240081).

Peus, Prof. Dr. F. (See Zoologisches Museum)

Phelan, Sgt. Thomas F., MacDill, A.F.B., Fla.: 300 echinoids from the Tertiary of Florida (240540).

Phelps, R. J., Madison, Wis.: 71 black flies from Wisconsin (240668).

Phelps, Ralph H. (See Engineering Societies Library)

Philatelic Fund, Smithsonian Institution: Philatelic cover bearing U.S. postal history markings (241109).

Philip, Dr. C. B., Hamilton, Mont.: 2 horseflies from North America (240670).

Phillips, Craig, Washington, D.C.: 3 fishes from Bimini (240221).

Phillips, George (See British Guiana Forest Department)

Phillips, Dr. Haskell C. (See Austin Peay State College)

Piccione, Omero, Rome, Italy: Medal portraying Professor Emilio Betti (241836).

Pickens, Mrs. Ruth Gist (See Smith, Harriet Gist)

Pickett, Dr. J. W. (See New England, University of)

Piedmont Label Co., Bedford, Va.: (Through Jesse T. Davidson) Fuchs & Lang hand lithograph press, 6 lithograph stones, hand roller, and 132 examples of early label printing (237315).

Pierce, Dr. W. Dwight, Los Angeles, Calif.: 2 leafhoppers, paratypes, from Mexico and 120 weevils, including types, from western U.S. (239127, 239128).

Pillai, Dr. N. Krishna (See Marine Biological Laboratory)

Pilous, Zdeněk, Hostinné, Czechoslovakia: 150 mosses from Czechoslovakia (240306, exchange).

Pires, Dr. J. M. (See Instituto Agronômico do Norte)

Plant, Mrs. O. H., Alexandria, Va.: 2 sewing boxes, 19th century, 2 pieces of Brussels carpeting, 1871, and a silk apron, ca. 1850 (239134).

Plant, Sidney F., Boynton Beach, Fla.: Bookmark commemorating the 100th anniversary of the birth of George Washington (236607).

Plath, Walter, Sr., Dunnville, Ontario, Canada: 646 beetles from Europe and 90 Coleoptera and 41 Lepidoptera from Europe (238127, 238662, 240267).

Platt, Homer C., Manchester, Iowa: "Uncle Sam" sesquicentennial bronze medal and silver and bronze medals issued in 1962 commemorating the U.S. achievements in the exploration of space (240321, 241517, 241903). (See also Delaware County Historical Society)

Pocock, Dorothy, Barbados, BW.I.: 16 shrimps (235532, 236429).

Poe, Maj. T. H. (See Defense, U.S. Department of)

Poland, Government of, Warsaw: (Through Przedsiebiorstwo Eksportu)

37 mint stamps of Poland (240339). *Academy of Sciences:* Bronze medal commemorating the 150th birthday of Julius Slowacki, Polish poet (235515).

Politi, L. P. (See New York Botanical Garden)

Polland, H. L. (See Chicago Transit Authority)

Porras G., Padre Pedro I., Quito, Ecuador: (Through Dr. Clifford Evans) fish from Ecuador (239486).

Post Office Department, Washington, D.C.: (Through Greever Allan) 3,213 miscellaneous foreign postage stamps, mint stamps, souvenir sheets, meter impressions, and items of postal stationery per U.P.U. Bulls. (236324, 237291, 238017, 238906, 240493); (through J. M. Bell) 120 U.S. mint postage stamps (236970); (through Earl L. Ellis) 2 notebooks containing historical facts and data leading to the development of metered mail, with 8 metered envelopes, and 28 first-day covers of the official public test of the mailomat (241738); (through James F. Kelleher) 3 old letters relating to U.S. Post Office operations, 1827–36 (236652).

Potomac Speleological Club, Falls Church, Va.: (Through Robert P. Mahood) 2 crickets and a spider from a cave in West Virginia (238673).

Potter, Dr. Charles J. (See Rochester & Pittsburgh Coal Co.)

Potts, Mrs. Margaret T., Washington, D.C.: Silk-chiffon dress of 1913 (235604).

Pough, Dr. Frederick, New York, N.Y.: Hureaulite from Portugal (240241, exchange).

Powell, Mrs. Edward Burr, Washington, D..C: Broché shawl of the 19th century and a porcelain pipe (238997).

Pratt, Dr. Harry D., Atlanta, Ga.: 5 mosquitoes and lice, including holotype and allotype (238667, exchange).

Pratt, Prof. Ivan, Corvallis, Oreg.: 3 slides, holotype and paratypes, of helminth worms (237086).

Prescott, Gertrude (See Montana, University of)

Preserve, The, Rensselaerville, N.Y.: (Through Edmund Niles Huyck) 244 caddis flies and damsel flies from New York State (240262).

Price, John W., Lancaster, Pa.: 2 starfish from the Paleozoic and Ordovician of Swatara Gap, Pa. (237661, exchange).

Price, Mrs. Maybelle K., Annapolis, Md.: Jacquard coverlet and Indian cashmere shawl (240289).

Princeton University, Princeton, N.J.: (Through Prof. Henry D. Smyth) Maniac computer (220575).

Pritchard, Dr. A. Earl, Oklahoma City, Okla.: 10,128 robber flies and 2,014 gall midges from the U.S. (239046).

Proprietors of Locks & Canals, Lowell, Mass.: Colored lithograph, 1876 (240345).

Prosser, Mrs. John A. (See Spalding, Francis O.)

Provenzano, Anthony J., Jr. (See Miami, University of)

Provincial Museum, Victoria, B.C., Canada: (Through Mrs. G. C. Carl) amphipod (239465).

Pruett, Mrs. John W., Moscow, Idaho: Fern from Idaho (241172).

Przedsiebiorstwo Eksportu (See Poland, Government of)

Puerto Rico, University of, Mayaguez, Puerto Rico: (Through Dr. Virgilio Biaggi, Jr.) 3 birds (240281); (through Prof. W. A. Gordon) 18 echinoids from the Tertiary of Puerto Rico (238008, exchange); (through John E. Randall) 9 sea anemones and 14 amphipods (239549, 239676); (through Mrs. Germaine L. Warmke) 388 marine mollusks from Puerto Rico (239291).

Pullen, Dr. Edward J. (See Game and Fish Commission)

Purdue University, Lafayette, Ind.: 55 phanerogams from Cuba and Jamaica (241260, exchange).

Quate, Dr. L. W., Honolulu, Hawaii: 5 scarab beetles from Malaya (240624).

Queen's College, Georgetown, British Guiana: (Through Dr. J. R. Ramsammy) 21 mollusks and 12 marine invertebrates (222224).

Quinlan, James L., Jr., Falls City, Tex.: 9 centipedes from Texas (238665, 238693).

Rachunis, William (See Interior, U.S. Department of the)

Radford, David E., Chapel Hill, N.C.: 3 pierid butterflies from North America (240666).

Radio Corporation of America, Princeton, N.J.: (Through J. S. Donal, Jr.) television equipment and tubes (236304).

Rafferty, Maj. J. (address unknown): (Through Sidney D. Haas) 4 World War II distinctive insignia (241583).

Ragan, James G. (See Interior, U.S. Department of the)

Raley, Robert, Newark, Del.: 1 lot of architectural elements, including a paneled wall and a casement window sash from the Murray House in Massachusetts, and an iron casement sash of the 17th century (240071).

Ramdohr, Prof. Paul (See Heidelberg, University of)

Ramovš, Dr. Anton (See Geološko-paleontološki-Institut)

Ramsammy, Dr. J. R. (See Queen's College)

Ramsay, Dennis (See Brown, Dr. William A., Jr.)

Ramsay, Douglas Taylor (See Brown, Dr. William A., Jr.)

Ramsden Brothers, Ghanzi, Bechuanaland: Miniature bow and 21 arrows in quiver (240627).

Randall, Dr. John E., Miami, Fla.: Embryo of a shark, antipatharian, and 8 specimens of stomach contents, and shark teeth from off Lameshur, St. John, Virgin Islands (236385, 236448, 237181). (See also Erdman, Donald S., and Puerto Rico, University of)

Randall, Comdr. William E. (See Commerce, U.S. Department of)

Raney, Dr. Edward C. (See Cornell University)

Ranjha, Dr. A. R. (See Pakistan, Government of)

Rao, K. Ramesh (See India, Government of)

Rapp, Dr. William F., Jr., Lincoln, Nebr.: Eastern gray tree frog from Peru, Nemaha Co., Nebr., also a crayfish (240528, 240915). (See also Nebraska, State of)

Rappleye, Dr. Robert, College Park, Md.: 4 sponges (238316).

Rasetti, Dr. Franco, Baltimore, Md.: 250 mollusks from the Triassic of the Italian Alps and 400 trilobites from the Middle Cambrian of Quebec (239106, 240036).

Rawls, John L., Washington, D.C.: Tin-type of President James Buchanan (236606).

Raymond, G. J., Houston, Tex.: (Through Maj. C. C. Fisher) cover bearing 2 precanceled stamps from Canton Island, Phoenix group (238480).

Raymond, Mrs. Wayte, New York, N.Y.: 560 modern coins of the world (240100).

Reading Anthracite Co., Pottsville, Pa.: (Through George J. Clark) anthracite coal samples (239331).

Reed, Dr. Clyde F., Baltimore, Md.: 16 ferns, phanerogams, grass, and 154 mosses from various localities (239298, 239302, 239303, 239355, 240094, 241493).

Reed, Dr. George, Chicago, Ill.: 4 tektites from Viet Nam and a piece of the Santa Rosalia, Baja California, Mexico meteorite (238972, exchange).

Reed, Dr. T. H. (See Smithsonian Institution)

Reese, Katharine M., Providence, R.I.: 36 pieces of silver, silver-plated sugar bowl, 2 early 19th-century framed engraved pictures, and a fragmentary Confederate flag (241779). (See also Brown, Dr. William A., Jr.)

Reese, Dr. William D. (See Southwestern Louisiana, University of)

Reeves, Lt. Eldon L. (See Defense, U.S. Department of)

Reifsnider, Bertha, Hudson, Ohio: 13 pieces of jewelry, Masonic books, and papers (238097).

Reilly, Edward L., Washington, D.C.: Washington Institute of Technology sonde-track (239017).

Reinert, Frederick F., Essex, Mass.: Cheese press probably of the 18th century (238709).

Reinert, Mrs. Frederick F., Essex, Mass.: Moccasins and chaps that belonged to Geronimo, also a newspaper clipping and a photograph (237728).

Reinhard, Prof. H. J., College Station, Tex.: 4 flies from Ohio and Texas (241575, exchange).

Reinicker, Mrs. Douglas, Easton, Pa.: (Through Saral Teilhet) 18 items related to the Woman Suffrage movement (238995).

Reining, Mrs. Priscilla C., Washington, D.C.: Painted barkcloth from Tanganyika (241249).

Reish, Dr. Donald J., Long Beach, Calif.: 14 polychaete worms, including 7 paratypes (236423).

Reppart, Cloyde A., Hancock, Md.: 15 crinoids from the Oriskany sandstone (239115).

Republic of Guinée, Government of, Conakry: First-day cover bearing Refugee Year stamps overprinted for 1961 (240109).

Reynard, Dr. George B., Riverton, N.J.: Bird (240280).

Reynolds, John A., Arcadia, Fla.: 6 balanid barnacles from the Miocene of Florida (241068).

Reynoldson, Mrs. LeRoy A., Washington, D.C.: Silk dress of 1880 (241462).

Reznek, Paul, Beltsville, Md.: Package of "beauty spots" manufactured by Johnson & Johnson (237605).

Rhode Island, University of, Kingston, R.I.: (Through Dr. Donald J. Zinn) 19 amphipods (224602).

Rhodes University, Grahamstown, South Africa: (Through Prof. J. L. B. Smith) 2 fishes from Africa (232706, exchange).

Rhymer, Daniel I., Washington, D.C.: 3 mammals (241769).

Ricci, Alfeo, Rio Marina Isola d'Elba, Italy: 37 minerals from various localities in Italy (234005).

Rice, Richard L., Hillsboro, Oreg.: Opal in nodule from Oregon and agate slab from New Mexico (237447, exchange); 2 slabs of palm wood (237755).

Rice, Robert E. (See State, U.S. Department of)

Richards, Dr. Horace G., Jr. (See Academy of Natural Sciences of Philadelphia)

Richards, Dr. W. R., Ottawa, Canada: 3 aphids from North America (241508).

Richardson, Dr. Annie L., Urbana, Ill.: 50 phanerogams from Louisiana collected by donor (237729).

Richardson, Douglas (See Richardson, Raj)

Richardson, Raj and Douglas, Falls Church, Va.: 62 beetles, cockroaches, crickets, lace bugs, dragon flies, and flies from Uganda, Africa (241433).

Richardson, Dr. W. D. (See Imperial College of Tropical Agriculture)

Richmond, Vice Adm. A. C. (See Treasury, U.S. Department of the)

Ricker, Dr. P. L., Washington, D.C.: 146 phanerogams from California (147321).

Riddle, George E., Spokane, Wash.: Fossil wood from Fish Lake, Spokane Co., Wash. (240591).

Riddle, William C., Memphis, Tenn.: 3 mollusks from the Cretaceous, Ripley formation at Coon Creek, McNairy Co., Tenn. (238163); 500 mollusks from the Upper Cretaceous of Coon Creek, Tenn. (239570, exchange).

Riesenberg, Dr. Saul H., Washington, D.C.: Pottery lamp from the Caroline Islands (240626).

Riggs National Bank (See Kosinsky, Anna M.)

Rijksherbarium, Leiden, Netherlands: Photograph of a phanerogam, type (240300, exchange).

Ring, Bernard, Brooklyn, N.Y.: 3 American First-Day Cover Society envelopes with Convention postmark (239756).

Ringhaver, L. C. (See Diesel Engine Sales, Inc.)

Richter, Dr. P. O., Corvallis, Oreg.: 2 scarab beetles from North America (238676).

Rivers, William, Baltimore, Md.: 6 minerals from Colorado and Wyoming (236562).

Roberts, Mrs. Alfred, Baltimore, Md.: Table and cover and a lantern with 12 slides (239594).

Roberts, Dr. F. H. H., Jr. (See Rubey, Dr. William H.)

Roberts, Dr. Larry S. (See McGill University)

Robertson, Dr. Robert, Philadelphia, Pa.: 8 zoanthids and 11 sea anemones (236998, 238526).

Robins, Dr. C. Richard (See Howard, Col. John K., and Miami, University of)

Robinson, Dr. D. M. (See University Museum)

Robinson, F. E., Summit, N.J.: Oil painting of the "Culebra Cut" by E. J. Read, 1914 (238870).

Robinson, Dr. Harold (See Wofford College)

Robinson, Seth, Jr., New York, N.Y.: Cloisonne demonstration set and 13 pieces of Japanese Cloisonne (241791).

Rocca, B. T., Sr., San Francisco, Calif.: Platinum bracelet set with diamonds and rubies (238192).

Rochester & Pittsburgh Coal Co., Indiana, Pa.: (Through Dr. Charles J. Potter) miner's hat, oil lamp, cotton wick, and blasting powder container (239012).

Rockefeller Institute, New York, N.Y.: (Through Bruce Voeller) 3 cultivated ferns (236407).

Rocky Mount Children's Museum, Rocky Mount, N.C.: (Through Mrs. Mae W. Bell) 26 fingers of fossil crabs and burrowing shrimps from the Miocene of North Carolina (234376).

Rocky Neck Yacht & Vessel Corp., Gloucester, Mass.: (Through Russell Grinnell, Jr.) half-model of schooner *Laurena Clayton* (241914).

Rodin, Dr. Robert J., San Luis Obispo, Calif.: 9 wood specimens of Old World origin and 8 microscope slides of wood (241813).

Roebling Fund, Smithsonian Institution: 355 minerals from the U.S. and worldwide localities (234309, 236213, 236351, 236554, 236556, 236569, 236624, 236628, 236776, 236777, 236816, 237112, 237149, 237304, 237305, 237492, 237569, 237749, 237756, 237757, 238015, 238102, 238103, 238109, 238640, 238970, 238974, 239264, 239265, 239866, 239979, 240046, 240167, 240248, 240454, 240535, 240895, 240896, 240897, 240898, 240899, 240988, 240990, 241164, 241165, 241499); orange beryl from Brazil, 64.10 carats (240894); apatite from Burma, 14.65 carats (241163); lot of diamond crystals (241264).

Rogers, Dr. David J., New York, N.Y.: 2 wood samples and a photograph (237108, 237109).

Rogers, Thomas, Toronto, Canada: Stereo camera, ca. 1901, slide viewer, 8 slides, and a printing frame for making positives (239674).

Rohde, Dr. K., Munster/Westfalen, Germany: 8 slides, including paratypes, of 2 new species of trematode worms (237825, 239496).

Rohrer, Josephine, Washington, D.C.: Greek pottery vase and an alabaster obelisk of ancient design (240634).

Roos, Dr. P. J. (See Caribbean Marine Biological Institute)

Rosenberg, William, Balsam, N.C.: 3 shrews from Alabama and North Carolina (236635); 30 scarab beetles from the U.S. (236855, exchange).

Rosenblatt, Dr. Richard (See Scripps Institution of Oceanography)

Ross, Dr. Charles A., Urbana, Ill.: 4 slides and a rock sample of fusulinid Foraminifera from the Permian of Macusani, Peru (240991).

Ross, Hunter (See Tucker, Charles)

Ross, Dr. Reuben J., Jr. (See Interior, U.S. Department of the)

Ross, Dr. Robert D. (See Virginia Polytechnic Institute)

Ross, Mrs. Walter G., Washington, D.C.: Woman's two-piece costume from India (241756).

Rotchford, Miriam Blanche, Estate of: (Through T. Brooke Howard and Albert V. Bryan, Jr.), flintlock pistol, pair of oil lamps, lustre teapot, carved cane, and iron box door lock (229200, bequest).

Roth, Vincent D. (See California, University of)

Rothstein, Arthur, New York, N.Y.: 57 black and white and color photographs (241807).

Rout, John C., Washington, D.C.: 39 miscellaneous used foreign postage stamps and a used cover of China (239928).

Rowley, Elmer B., Glens Falls, N.Y.: 13 minerals from New York (239521, exchange).

Roy, José M., David, Chiriquí, Panama: 2 phanerogams from Panama (237998).

Royal College, Nairobi, Africa: (Through Prof. I. S. Loupekine) 2 meerschaum specimens from Lake Amboseli, Kenya, Africa (241268).

Royal Ontario Museum, Toronto, Canada: (Through Dr. Glenn B. Wiggins) 7 caddis fly larvae from California (241296).

Rozman, Sol, New York, N.Y.: 6,980 Russian Zemstvo postage stamps in 8 volumes (239453).

Rubey, Dr. William W., Los Angeles, Calif.: (Through Dr. F. H. H. Roberts, Jr.) 11 sherds of steatite vessels from Lincoln Co., Wyo. (238624).

Rubinton, Mrs. Lena (See Rubinton, Col. Samuel)

Rubinton, Col. Samuel, Hyattsville, Md., **and Rubinton, Mrs. Lena, Simon, Mrs. Pauline R., Kaplan, Mrs. Leonard, and Dillard, Mrs. Rosalie R.** (addresses unknown): Scale model of old Post Office building made by Nathan Rubinton, father of donors (241441).

Ruhoff, Mrs. Florence, Washington, D.C.: Centennial cover from Vineland, N.J., 12 foreign registration and airmail stickers, and a postage stamp of the Ryukyu Islands (240120).

Ruhoff, Theodore B., Washington, D.C.: 75 miscellaneous U.S. and foreign philatelic items (240334).

Rumpp, Norman L., China Lake, Calif.: 4 beetles from the U.S. (238133).

Runyon, Dr. Robert, Brownsville, Tex.: 54 phanerogams, 4 grasses, and 16 lichens from Texas (234898, 238277).

Ruppel, Dr. Robert F., Bogotá, Colombia: 28 beetles from South America (240671).

Russell, Anna, Arcadia, Fla.: Marlin pistol, ca. 1880 (240026).

Russell, Dr. Ernest E. (See Mississippi State College)

Russo, Theodore (address unknown): German Technical Sergeant's field service coat, World War II, and a steel helmet (241423).

Ruzicka, Mrs. F. Fred, Sr., Baltimore, Md.: Silk shawl of the mid-19th century (238740).

Ryan, J. T., Jr. (See Mine Safety Appliances Co.)

Ryan, James T., Washington, D.C.: 103 miscellaneous used foreign postage stamps (240332).

Ryan, Roger B., Corvallis, Oreg.: 11 parasitic wasps from Oregon (235727).

Rydeen, Mrs. Edmund (See Stockman, Rudolph)

Ryukyu Islands, Government of: (Through Col. Dured E. Townsend) 11 mint postage stamps of the Ryukyu Islands (240220).

S. H. Couch Co., Quincy, Mass.: Device for assembling insulation to staples and samples (241175).

Saber, Prof. A. Hifny (See Cairo University)

Sabrosky, Curtis, Washington, D.C.: 1,006 fruit flies from the U.S. (241672).

Sacco, Dr. José da Costa (See Instituto Agronômico do Sul)

Sachs, Mrs. Morris H., Washington, D.C.: 143 modern coins, medals, and paper currencies (241303).

Sadlick, Dr. Walter, Pocatello, Idaho: 2 invertebrate fossils from the Mississippian of Utah (241500).

Sagástegui Alva, Dr. Abundio (See Universidad Nacional de Trujillo)

Sager, Elwood, Washington, D.C.: 2 bullet moulds and combination bullet mould-loading tool (240138).

Sailer, Dr. Reece I. (See Agriculture, U.S. Department of)

St. Albans Church Opportunity Shop, Washington, D.C.: (Through Mrs. Donald O. Woolf) 6 items of woman's clothing of the mid-19th and early 20th centuries (241359).

Sakimura, K., Honolulu, Hawaii: 2 insects from Hawaii (238678, exchange); 2 insects, paratypes, from Hawaii (240268).

Salotti, Charles A. (See Georgia, University of)

Salter, William E., Washington, D.C.: 500 invertebrate fossils from the Haragan shale of Oklahoma (239119).

Sampaio d'Orey, Dr. J. D. (See Jardim e Museu Agrícola do Ultramar)

Sampson, Mrs. Marjorie L., Washington, D.C.: Group of lantern slides and photo albums given in memory of Charles R. Sampson (241809).

Sanders, Siegfried (deceased): (Through Mrs. Milton W. King) Victorian patchwork quilt (239740).

Sando, W. J. (See Interior, U.S. Department of the)

Sands, George E., New York, N.Y.: Velvet dress, ca. 1890 (235875).

San Francisco State College, San Francisco, Calif.: (Through Dr. Jack Tomlinson) 3 slides of barnacles, types (238837).

San Martin, Dr. Pablo R., Montevideo, Uruguay: 2 scorpions, paratypes, from Uruguay (238701).

Sard, Mrs. Russell Ellis, Washington, D.C.: Piece of chiné ribbon from one of Martha Washington's morning dresses and a china soap dish recovered from wreckage of USS *Maine* (238742, 241301).

Sartenaer, Dr. Paul (See Institut Royal des Sciences Naturelles de Belgique)

Saskatchewan, University of, Saskatoon, Canada: (Through Dr. U. Theodore Hammer) 5 vials of diatoms from Canada (238511).

Saward, Ralph B. (See Saward's Journal)

Saward's Journal, New York, N.Y.: (Through Ralph B. Saward) model mine car (238502).

Sawyer, L. E., Terre Haute, Ind.: One of the original pigs of the Lily Furnace in Illinois (239318).

Saylor, John P., Washington, D.C.: 19 articles of clothing worn by donor's parents in 1907 (237853).

Sbarbaro, Dr. Camillo, Spotorno, Savona, Italy: 27 lichens from Europe (238722, 241497, exchanges).

Scagel, Dr. R. F. (See British Columbia, University of)

Schaaf, Mr. and Mrs. E. P., Stratford, Conn.: 2 invertebrate fossils from the Cretaceous of Big Bend National Park, Tex. (238111).

Schade, Prof. H. A. (See California, University of)

Scheele, Carl H., Washington, D.C.: 2 stampless covers carried via Thurn and Taxis postal system (241737).

Schellenberg, Dr. Theodore R., Washington, D.C.: Cob 8 realpiece struck in the name of Philip V of Spain, 1738, 9 Latin American coins, and 2 from Morocco and the Caribbean Territories (239345).

Scheller, Irving, Osburn, Idaho: (Through Joseph Kieffer) rock drill, ca. 1875–90 (235798).

Schiller, Mrs. Dorothy M., Washington, D.C.: 2 envelopes bearing foreign postal markings and a foreign meter impression (240333).

Schilt, Prof. Jan (See Columbia University)

Schley, Mr. and Mrs. H. P. (deceased): (Through Mrs. Claire S. Goulding) campaign saucer of 1868 (236644).

Schloeder, Dr. Frank X., Balboa Heights, Canal Zone: (Through Stewart Springer) 9 fishes, including 7 shark embryos and 2 Remora, from Panama (240502).

Schmidt, Rex G., Washington, D.C.: 4 spiny lobster larvae (238894).

Schneider, Clarence E., San Gabriel, Calif.: 4 maps prepared in General Pershing's headquarters, 1918 (236842).

Schneider, Mrs. J. Thomson, Washington, D.C.: Lace shawl, a hairwork brooch, and a pair of earrings (241894).

Schneider, Louis D., Kenton, Ohio: 2,621 miscellaneous U.S. precancel stamps (236179).

Schopf, James M. (See Interior, U.S. Department of the)

Schrantz, Howard, Cleveland, Ohio: Engineer's watch, 1882 (237604).

Schubert, Dr. Bernice G. (See Agriculture, U.S. Department of)

Schultz, Elizabeth J., Kokomo, Ind.: (Through Maj. C. C. Fisher) 15 U.S. postal cards bearing various "Mailers' Postmark Permits" (241107).

Schultz, Dr. George A. (See Montana State College)

Schuster, E. H. (See Defense, U.S. Department of)

Schuttig, M. Anohé, Noumea, New Caledonia: Set of deer antlers from New Caledonia (236928).

Schwab, Mrs. Robert S., Lexington, Mass.: Glass bowl and 2 glass jars (241789).

Schwalberg, Robert, Vetzlar, Germany: 65 cameras, 20 lenses, 15 shutters, 3 color temperature meters, and a stereo viewer (238384).

Schwartz, Dr. Frank J., Solomons, Md.: Fish (237227); 3 embryos from Accomack Co., Va. (238987). (See also Maryland, University of, and Pennsylvania Fish Commission)

Schwarz, R. N. (See Treasury, U.S. Department of the)

Science Museum, London, England: (Through Dr. K. G. Hill) replica of Davy's electrochemical apparatus for the electrolysis of potash (237137).

Scientific and Industrial Research, Palmerston, New Zealand: (Through Dr. D. H. Todd) 4 scarab beetles from New Zealand (238683).

Scovill Manufacturing Co., Waterbury, Conn.: (Through S. T. Williams) memorabilia from the earlier days of the Scovill Manufacturing Co., and a collection of hot-forge tools (240641, 241797).

Scripps Institution of Oceanography, La Jolla, Calif.: (Through Leo D. Berner, Jr.) notes and illustrations dealing with nemerteans and mollusks of Dr. W. R. Coe (235131); (through Dr. Carl L. Hubbs) shrimp (240512); (through Dr. W. L. Klawe) 26 phanerogams mostly from Hawaii (236759, 238232); (through Dr. John A. McGowan) 6 poeobiid worms (236876); (through Frances L. Parker) 345 slides of Recent Foraminifera, including 34 holotypes and 55 paratypes, from San Diego, Calif., and the east Mississippi Delta margin (239904); (through Dr. Richard Rosenblatt and Dr. John Stephens) 2 fishes, paratypes (240697, exchange).

Scriven, Margaret (See Chicago Historical Society)

Scullen, Prof. Herman A., Corvallis, Oreg.: 26 wasps, including 11 holotypes, 3 allotypes, and 2 neotypes, from North America (239035, 240058, 241574).

Seaborg, Dr. Glenn T. (See Atomic Energy Commission)

Seel, Paul, Bala Cynwyd, Pa.: 3 quartz specimens from Maiden Canyon, Fergus Co., Mont., and 3 micromounts of synthetic silicon crystals (237751, 238973).

Seelinger, Phillip (See Defense, U.S. Department of)

Segeler, Curt G., Brooklyn, N.Y.: Phlogopite from Talcville, N.Y. (241716); tirodite from No. 3 mine, Talcville, N.Y. (236691, exchange).

Seidel, Alvim, Corupá, Santa Catarina, Brazil: Phanerogam from Brazil (238725).

Seilheimer, Jack A. (See Louisville, University of)

Selchow, Frederick Mudge, Hopkinton, N.H.: Clock movement (236662).

Self, Dr. J. Teague and Huggins, Dr. Ernest J., Norman, Okla.: 5 parasitic copepods (231378).

Sellars, Lee T. (See Washington Steel Corp.)

Semple, Dr. Arthur T., Turrialba, Costa Rica: 30 phanerogams and 20 grasses from Costa Rica (237026).

Senckenbergische Naturforschende Gesellschaft, Frankfurt, Germany: (Through Dr. Otto Kraus) centipede from Europe (241375).

Servico Florestal, Rio de Janeiro, Guanabara, Brazil: 30 phanerogams from Brazil (237721).

Seshadri, Dr. T. R. (See Delhi, University of)

Setzer, Dr. Henry W., Washington, D.C.: 14 miscellaneous foreign covers bearing stamps and 2 skeletons from Maryland (240330, 241721). (See also Smithsonian Institution—Alan Collins Expedition to Libya)

Shand, Linda, Kenwood Park, Md.: Moth from Maryland with pupae case (239133).

Sharp, Dr. A. J., Knoxville, Tenn.: Wood from Tennessee (241562). (See also Tennessee, University of)

Shaw, Dr. J. N. (See Oregon State University)

Shaw, Mrs. William W., Los Angeles, Calif.: Framed photograph of President James A. Garfield (240790).

Shedd, Mrs. Katie Griffith, Washington, D.C.: Posters and buttons of World War I (238710).

Shepard, Lt. Col. Claude L., Jr., Arlington, Va.: 11 uniforms and accessories worn by donor, 1939–50 (239760).

Sheppard, Haji A. Mubin (See Malaya, Federation of)

Sheridan, Philip Henry, North Bergen, N.J.: Lapel button of the Grand Army of the Republic (240399).

Sherman, Caroline and Dorothea, Washington, D.C.: Book on 19th-century needlework (238833).

Sherman, Dorothea (See Sherman, Caroline)

Sherwood, Delbert, Lake Villa, Ill.: (Through Maj. C. C. Fisher) 11 U.S. precancel stamps of Lake Co., Ill. (240327).

Shewell, Dr. G. E. (See Canada, Government of)

Shimaji, Dr. Ken (See Tokyo, University of)

Shippee, J. M., Kansas City, Mo.: 16 archeological items from Cowley Co., Kans. (241560).

Shirk, George H., Oklahoma City, Okla.: 2,737 service mail covers bearing Army and Navy postal markings (238817).

Shook, Mrs. Richard (deceased): (Through Mrs. Helen Adams) applique quilt, ca. 1855 (237129).

Shoub, Dr. Earle P. (See Interior, U.S. Department of the)

Shrock, Dr. Robert R., Cambridge, Mass.: 12 corals and slides, types, from Louisville, Ky., and the Greenlock of England (239118).

Shure, Sidney N., Evanston, Ill.: 1,856 Palestine postage stamps (240329).

Siegel, Howard M., Cranford, N.J.: Swiss watch (238492).

Sierk, Herbert A., Jacksonville, Ill.: 26 lichens from Illinois and Ohio (241650, exchange).

Silva Taboada, Gilberto, Havana, Cuba: 2 isopods (229121).

Silverman, Len (See Nikon Incorporated)

Silverman, Samuel, Washington, D.C.: Boy Scout uniform including accessories, 1939–41 (237651).

Simmons, Ernest G., Corpus Christi, Tex.: 11 isopods and 35 argulids (230619, 237104).

Simon, Mrs. Pauline R. (See Rubinton, Col. Samuel)

Simonetta, Prof. Alberto M. (See Florence, University of)

Sims, George W., Carmel, Calif.: Prospector's gold dust pan and 2 branding irons (234541).

Sinclair, Charles C., Washington, D.C.: Silver coffee pot (236641).

Singman, Bert B., Washington, D.C.: Spanish admiral's flag (239310).

Skandera, John, Jr., Little Falls, N.Y.: Wooden nickel commemorating the sesquicentennial of Little Falls, N.Y., 1811–1961 (237890).

Skinner, Dr. Brian J. (See Interior, U.S. Department of the)

Slack, Dr. Glen A. (See General Electric Co.)

Slayden, Capt. A. W. (See Defense, U.S. Department of)

Smalley, Dr. Alfred E., New Orleans, La.: 23 mysids and 7 shrimps, including a holotype (233928, 235499).

Smiley, Mrs. Bertha E., J. Frank, and Paul H., Washington, D.C.: Paisley shawl of 1840 (240784).

Smiley, Hugh L., Wichita, Kans.: (Through Maj. C. C. Fisher) 133 Kansas precancel stamps (238752).

Smiley, J. Frank (See Smiley, Mrs. Bertha E.)

Smiley, Paul H. (See Smiley, Mrs. Bertha E.)

Smith, Dr. A. C., Washington, D.C.: 43 miscellaneous insects from Fiji (240047).

Smith, C., Baltimore, Md.: Synthetic quartz made at Bell Telephone Laboratories (240660).

Smith, Dr. Clyde F., Raleigh, N.C.: Plant lice, holotype, from Florida (241435).

Smith, F. Harold, Indianapolis, Ind.: 4 dictaphone cylinders with part of a broadcast from one of Admiral Byrd's expeditions to Little America (240973).

Smith, Mr. and Mrs. French, College Park, Md.: Siren made by W. H. Stanton in 1885 (240149).

Smith, Mrs. George S., Sackets Harbor, N.Y.: Pike head found on the site of the Battle of Sackets Harbor, N.Y., in 1813 (240313).

Smith, Harriet Gist, and Pickens, Mrs. Ruth Gist, Westminster, Md.: 15 items of costumes, textiles, and books (239138).

Smith, Prof. J. L. B. (See Rhodes University)

Smith, Dr. M. E. (See Massachusetts, University of)

Smith, Mrs. Mildred C., Washington, D.C.: Mexican pottery water bottle, Exhibitor's pass for the Centennial Exhibition in Philadelphia, 1876, and 3 medals, ca. 1870–1900 (240583).

Smith, William R., Chillum, Md.: Copper from Ajo, Ariz., and 11 minerals from Canada (236557, 237882, exchanges).

Smithsonian Institution, Washington, D.C.: (See also the following funds: Batchelor, Charles and Rosanna, Canfield, Chamberlain, National Aeronautics and Space Administration Grant, Pell, Alfred Duane, Philatelic, Roebling, Springer, Walcott) *Deposits:* Diffraction optical apparatus (237912); (through Dr. Alexander Wetmore) 583 skins, 27 skeletons, 3 alcoholics, 14 eggs, 29 mammals, and 3 mollusks collected by Dr. Wetmore (236630); 47 rough dried bird skeletons from southern Africa and Rhodesia (236632, 239326); 2 hummingbirds (236633). *Archives:* (Through John DeGurse, Jr.) 20 philatelic covers bearing miscellaneous U.S. and foreign postage stamps (240116). *Editorial and Publications Division:* (Through Mrs. Eileen McCarthy) 344 miscellaneous U.S. and foreign covers and postage stamps (239922). *International Exchange Service:* (Through J. A. Collins) 139 miscellaneous U.S. and foreign used postage stamps and covers (239921). *Library:* (Through Ruth E. Blanchard) 1,797 miscellaneous U.S. and foreign used stamps and covers (240341). *Found in Collections:* Foot bellows (232691); gram of small fragments from the Krahenberg, Germany, meteorite (236563); 92 rocks of the lime belt of western Massachusetts and Connecticut collected by T. Nelson Dale about 1900 (236564); 424 minerals from various localities collected by T. Nelson Dale about 1900 (236565); merchant's letter book of Norfolk, Va., 1780–1790 (237034); stone mortar and pestle used by the Pueblo Indians (237138); "aquatic" microscope (237347); 63 minerals from Chile (237752, 240252); shoe equipped with Judson zipper, ca. 1896 (238343); 21 lenses, Kodak pocket camera, 2 roll holders (238386); voluted iron door hinge (238708); 6 basketmaker sandals and fragments (238968); bottle (238989); 3 funeral placards and 1 decalcomania (238993); commemorative medal, 1866 (238994); portrait and a letter belonging to Madam Curie (239016); vacuum tube voltmeter (239198); 4 prints of bridges (239361); medal commemorating Edward Owen Leech as Director of the Mint in 1889 (239648); 1,787 miscellaneous insects from North America, mostly U.S. (239910); 5 plaster relief panels (240631); 8 measuring sticks (240642); 4 albums of picture post cards and autographs, 2 school books, and an account-scrap book (240815); mercurial barometer (240819); floor clamp, planking clamp, wrench, and an automatic apple peeler, 19th century (241188); Backus water motor, ca. 1874 (241189); mallet, 19th century (241193); 3 Roman weights (241194); 46 assorted patent medicines (241520); 57 miscellaneous drugs and 9 sterile and cosmetic pads (241521); assorted pharmaceutical fixtures and equipment (241745); patent model of a locomotive, 1858 (241750); grape shot and 2 bullets (241875); steel tape, spirit level, pedometer, and a plane-table with tripod and plumb (241910). *Made in Laboratories:* Reproduction of Arabic illustration (236618); replica of Ancient Greek vase (236949); 4 replicas of X-ray tube holders (237606); replica of Italian microscope made by Giuseppe Campani about 1690 (237910); reproduction of Roman mosaic and a copy of a Greek bowl (237911); Egyptian Surveyors wall painting (238762); half-model of pinky *Dove* (239195); 2 optical apparatus models for demonstrating refraction and camera obscura (239317); reproduction of an Egyptian clepsydra (240552); reproduction of a Greek sundial (240553); model of Couch rock drill of 1849 (240686); model of Fowle neck drill of 1851 (240687); model of bronze truss from the Pantheon portico, 2d century A.D. (241192); model of a Sprague electric truck, 1888 (241749); replica of Egyptian shadow clock (241905); 452 photographs of phanerogams and 60 of cryptogams (241933). *Astrophysical Observatory:* (Through Dr. E. L. Fireman) specimen of the Ehole, Angola, stony meteorite (239252); (through Dr. Fred L. Whipple) specimen of the Ras Tanura, Saudi Arabia, meteorite (241761). *Bureau of American Ethnology: River Basin Surveys:* 11,560 miscellaneous stone, bone, and shell archeological specimens from various localities (236771, 238626, 238627). *Freer Gallery of Art:* (Through Russell Mielke) hygrometer (225753, deposit). *Collected:* 10,000 invertebrate fossils from the Ordovician and Silurian of Great Britain, Norway, and Sweden collected by Dr. Richard S. Boardman, 1960 (237746); 1,165 marine invertebrates collected by Dr. Thomas E. Bowman (224068); 571 miscellaneous insects, 1 fish, 148 mollusks, and 3 marine invertebrates collected by Dr. J. F. Gates Clarke from Tahiti (237059); 2 wood specimens and 2 phanerogams from Virginia collected by Dr. Richard S. Cowan (237218); 465 miscellaneous insects, mainly butterflies and moths, from southeastern U.S., collected by William D. Field (237579); 4,576 miscellaneous insects from North Carolina collected by Dr. O. S. Flint (241868); 366 fossil mammal remains from Montana and Wyoming collected by Dr. C. L. Gazin and Franklin L. Pearce, July and August 1961 (239120); 265 phanerogams from Africa and 3 wooden animal figures and a wooden mask from Northern Rhodesia collected by Dr. Gordon D. Gibson (238374, 240230); 257 mammals from southwest Virginia collected by Dr. Charles O. Handley, Jr. and Daniel I. Rhymer (241767); 22 mammals from Florida and Georgia collected by Dr. Charles O. Handley, Jr. (241768); 1,512 crayfishes, also 4 fishes collected by Dr. Horton H. Hobbs, Jr. (241473); 67 military insignia, small arms parts, projectiles and tools excavated from sites of two War of 1812 forts in 1959, 204 military buttons, insignia and pieces of equipment excavated from the War of 1812 sites of Fort Pike and Smith's Cantonment in 1960, 58 military buttons, tools, and miscellaneous equipment excavated from the site of Fort Adams, Wilkinson Co., Miss., in 1960, and 32 U.S. and British insignia, utensils, and miscellaneous artifacts of the War of 1812, excavated from the area of Sackets Harbor, N.Y., in 1961 by Edgar M. Howell (237897, 237898, 237899, 241586); 503 phanerogams and 49 ferns collected by Dr. H. Hürlimann, on the French-Swiss Botanical Mission to New Caledonia, 1951 (236932); 3,491 mosses from Michigan and North Carolina collected by Robert Ireland (241491); 189 fossil skull and skeletal parts from the upper Permian and lower Triassic of South Africa, collected by Dr. Nicholas Hotton, III, and J. W. Kitching, July 1961 (237664); 266 phanerogams and 14 grasses from Jordan collected by Mrs. Eric Kocher (237557, 238723); 11 mollusks and corals from the Tertiary of Haiti, collected by E. C. and G. M. Leonard (241863); 28 phanerogams and 9 grasses from Saudi Arabia collected by Mrs. Maxine R. Mandaville (239007); approximately 420 fossil materials from

Lamb's Ranch, near Littleton, Colo., collected by George S. Metcalf, and Holmes A. Semken, Jr. (240261) ; 172 phanerogams, 29 grasses, 7 ferns, and 14 cryptogams from California collected by C. V. Morton, 1959 (236582) ; 100 corals from the Silurian of New South Wales, Australia, collected by Dr. Allison P. Palmer, 1961 (237745) ; 40 land mollusks from Oahu, Hawaii, collected by Dr. Harald A. Rehder (239287) ; 275 mollusks and 1 crayfish from various localities, collected by Dr. Joseph Rosewater (241549) ; 1,115 miscellaneous insects, 15 mollusks, and 1 crab from Guatemala collected by Mrs. Florence Ruhoff (238140) ; 61 mollusks, 5 amphibians, 1,051 mammals, and a collection of insects from Aden, Iran, and Libya collected by Dr. Henry W. Setzer and Gary L. Ranck (237842) ; 557 phanerogams, 305 grasses, 58 ferns, and 171 wood specimens from Mexico collected by Dr. Thomas R. Soderstrom (240310) ; 326 phanerogams and 87 wood specimens from the Florida Keys and 196 woods and 813 phanerogams from Colorado, Hawaii, and Oregon collected by Dr. William L. Stern (240299, 240618) ; (through Dr. Hans Hürlimann) 617 phanerogams from New Caledonia collected by Dr. M. G. Baumann-Bodenheim (240534). *Purchased:* Reproduction of De Dondi astronomical clock (223594) ; 18 ethnological items from Northern Rhodesia (231723) ; 4 pieces of material, crewel embroidery, and a velvet bag (233244) ; clothing, household articles, jewelry, toys and religious objects from India (233799) ; mahogany workbench (235253) ; 4 aquatint plates of the series of *Java* and the *Constitution,* and an engraving "The Battle of Lake Erie" (235489) ; colored lithograph, "Bombardment and Capture of Island Number Ten," by Currier & Ives (235506) ; pair of embroidered mull curtains (235581) ; street piano (236282) ; 14 political items (236642) ; 2 replicas of Leeuwenhoek's microscope (236657) ; 38 prints and other objects (236658) ; replica of a Roman foot rule (236659) ; solar microscope (236683) ; French lamp of the early 19th century (236699) ; 225 frogs from Colombia (236824) ; man's suit of the early 19th century (236886) ; model of brass founder's lathe (236952) ; model of Besson tracing lathe, 1659 (236953) ; 11 Arabic glass weights, 9th to 11th centuries (236954) ; model of Burr's Hudson River bridge (237037) ; model of Caesar's Rhine River bridge, 55 B.C. (237038) ; 22 American made glass bottles of the 19th century (237040) ; W. Jones orrery, prior to 1830 (237044) ; replicas of Thomson's electrodeless discharge tube for exhibit treating plasma research and Rutherford's tube for growing emanation (237066) ; chiaroscuro woodcut and 2 prints (237121) ; etching and aquatint, 2 etchings, and a lithograph (237122) ; lithograph "Morning Trawler, Bass Rocks" by Prentiss Taylor (237123) ; color mezzotint, "Portrait of Edouard Dagoty," by Carlo Lasinio (237124) ; woodcut, "Man's Head in Profile," by Karl Schmidt-Rottluff (237125) ; color lithograph, "Jack of Spades," by Larry Rivers (237126) ; model, Town truss bridge, ca. 1838 (237136) ; 2,243 miscellaneous butterflies mostly from Africa, Asia, Europe, and North America (237310) ; 4 English coins in silver (237325) ; medal, badge, bank check, and share-certificate of the 19th century (237326) ; 4 ancient Greek coins (237327) ; 4 checks signed by President Calvin Coolidge and a five-dollar bank note issued in 1862 (237328) ; 3 Roman silver denarii (237329) ; "Massa" of Ceylon struck in the name of Queen Lilavati, 1197–1200 A.D. (237330) ; French flintlock powder tester and British Officer's socket type bayonet (237342) ; gunner's tube pouch (237343) ; model of B–17G bomber (237344) ; 21 Ifugao items, mostly wearing apparel (237560) ; 3 Italian imitations of Roman large bronzes (237583) ; mariner's compass and galvanometer (237602) ; stove with Zachary Taylor's profile, ca. 1848 (237618) ; dialing scale (237672) ; 2 etchings by Graham Sutherland (237762) ; color etchings, "The Seasons," attributed to J. C. Le Blon (237763); 8 chiaroscuro woodcuts by John Skippe (237764); chiaroscuro woodcut, "The Visitation," by John Baptist Jackson (237765); 47 ethnological items (237781); sideboard of the 18th century (237815); model of John White's screw cutting lathe, ca. 1816 (237907); 7 obstetrical instruments (237909); recording barometer (237913); replica of Hare's calorimotor (237914); models of Roberts' back-geared lathe and planing machine, and a replica of "Lord Chancellor" bench micrometer caliper, early 19th century (237918); 7 photographic prints by Clarence J. Laughlin (237938); specimen of Ider, Ala., iron meteorite (237,-968); replica of Worthington steam pump, 1840 (237988); pair of reeded arches, ca. 1801–1809 (238099); George Collins Cox collection of photographic prints (238180); 5 live frogs and a turtle, also preserved frogs, 47 crabs, and 12 insects (238193); oil painting of Captain Isaac Hull (238206); printed fabric, "Penn's Treaty with the Indians," about 1800 (238213); 13 woodworking tools of the early 18th century (238214); photographic equipment and photographs (238258); model of Nickel Plate Railroad locomotive (238315); George Washington survey, Abigail Adams letter, and a James Madison document (238367); 30 Colonial bills and state bank notes (238471); replica of Mason & Baldwin slide rest lathe (238474); model of Hoe's grinding machine, ca. 1842 (238486); replica of a "Polhem stick" (238487); model of David Wilkinson's screw cutting lathe (238491); Regnier dynamometer, ca. 1800, and a plane table alidade (238494); Roman steelyard and 2 coptic weights (238495); replica of Burt solar compass, 1836 (238496); inclined barometer, ca. 1800 (238498); replica of Florentine hygrometer (238499); static electrical machine, 1800–30 (238500); 30 ethnological items from Ifugao, Philippine Islands (238621); Remojadas figurine from Vera Cruz, Mexico (238625); Clement sawmill with vertical saw (238714); 4 autoradiographs of frogs (238734); 24 aquarelle prints by Fred Cozzens of U.S. Naval vessels during the Spanish-American War (238741); model of Hale's Connecticut River bridge, 1785 (238757); French balance beam, 1756 (238763); reproduction of Bewcastle Cross sundial (238826); reproduction of a fragment of a Roman water clock (238862); 19 prints of bridges (239013); 13 prints of bridges (239014); 9 weights and measures and a print of the 17th, 18th, and 19th centuries (239015); 10 scientific instruments (239019); 28 chemical and electrical prints (239020); miniature plow (239068); John Deere sulky plow (239073); woodcut, "Judith," by C. Van Sichem, after Goltzius (239137); model of clipper ship *Flying Cloud* (239192); model of Letter of Marque Schooner (239193); rigged model of a Kennebec River gundalow, 1885 (239194); model of ferry boat *Jersey*, 1812 (239196); 17 crabs, 3 stomatopods, 4 brachiopods, and a polychaete worm (239201); stool from the Cook Islands (239280); chiaroscuro woodcut, "Neptune," by John Baptist Jackson (239337); etching and engraving by L. J. Masquelier (239338); miner's lamp (239341); engraving of Desjardin's Canal bridge, 1857 (239362); 2 prints of bridges (239363); print depicting the pump at Notre Dame bridge (239367); 9 prints of bridges and canal (239370); 24 items of men's, women's, and children's clothing of the 19th century (239595); replica of Arundel metrological marble (239611); 3 scientific instruments and 2 German compendiums (239625); 11 prints of bridges and tunnels (239665); Dutch wall clock (239666); 19 prints of bridges (239667); model of Winans Hopper car, 1860 (239671); 18 prints of bridges (239764); model of B & O passenger car, 1856 (239767); model of Illinois Central railroad boxcar, 1857 (239768); model of 1875 boxcar (239769); model of locomotive "Sampson," 1867 (239770); 7 scientific instruments (239771); proportional divider, compass and level, barometer, and a phrenology head (239772); 2 Burmese glass vases by Webb (239930); Belgian table carpet, ca. 1850 (239931); 6 engravings, 4 etchings, pen drawing of about 1750, and a color aquatint (239965); Italian armillary sphere with bronze support of the late 16th century (240011); 73 phanerogams from South Africa (240027); models of M–24 and M–26 tanks (240029); model of M–3 medium tank (240030); Graflex cutaway camera (240076); 4 photographic prints of Julia Margaret Cameron (240077); color woodcut, "Rocks," by Sue Jane Mitchell Smock (240078); wood engraving and color aquatint by James L. Wells (240079); 2 lithographs by Odilon Redon (240080); 7 silversmith's burnishing tools (240084); spun brass kettle (240085); 1884 issue of New York Herald (240086); 315 phanerogams, 21 grasses, 12 cryptogams, and a fern from New Caledonia (240095); reproductions of 5 astronomical instruments (240148); 18 artist's sketches, models, dies and strikings, showing the process of modeling and striking medals (240180); dolls, costumes, and musical instruments from India (240187); 388 ethnological items from Pakistan (240190); 3 lithographs by Winslow Homer and 2 color aquatints by Georges Rouault (240290); 723 phanerogams, 15 cryptogams, and 178 wood specimens from Brazil (240308); model of U.S. naval aircraft R–9 Twin Float Seaplane (240319); etching, "Hellgate Span," 1916 (240346); model of Vaucanson's lathe, ca. 1745 (240400); color lithograph, "Battle of North Point, Near Baltimore," by Thomas Ruckle (240408); lithograph, "Iron Lighthouse on Minot's Ledge, Mass." (240500); wooden spade (240543); apple parer (240544); handkerchief commemorating the freedom of the 13 colonies in 1783, and an embroidered purse of 1790 (240679); specimen of the Norton Co., Kans., meteorite, 1,622 grams (240733); European breastplate, ca. 1610–50 (240742); color lithograph, Jerome Wheelock advertisement, ca. 1868 (240746); color print "A View of the Bombardment of Fort McHenry" (240885); U.S. Army enlisted man's khaki field-service blouse of 1898 (240902); diorama showing the planing of ribs for printing press beds in R. Hoe Machine Works, ca. 1835 (240909); diorama showing chipping of engine bed castings in the Southwark Foundry (240910); model of the Hartness screw-thread comparator (240911); 10 hand tools (240974); 2 aprons of 1880 and 1900 (241033); model of Palmer's permanent bridge, 1805 (241112); yardstick rule, ca. 1847 (241115); model of John Smeaton's boring mill carriage (241184); replicas of a bow drill, drill bit, and a breast piece, 19th century (241190); 11 photographs and prints of early civil-engineering projects (241191); 5 scientific instruments, 16th, 17th, and 18th centuries (241222); spiral of feather money from Santa Cruz, Solomon Islands (241250); astronomical clock (241309); Japanese stick clock (241310); clyster set, including polished pewter instruments and a leather covered case (241313); book by N. A. Chrysologue de Gy, with attached instruments as described therein (241315); wooden mask, 2 ivory spikes, and a spoon from Ulindi River, Eastern Congo (241416); Bacon edition of *The Star Spangled Banner* sheet music, 1814–16 (241422); 2 prints and 4 flag engravings (241436); Miller Cowan dynamo electric motor (241444); 4 prints of bridges (241445); 2 prints of bridges (241446); reproduction of key action typewriter (241447); replica of Saxon sun dial (241448); model of Alaskan trading schooner *Ounalaska* (241522); model of off-shore motor launch (241523); model of South Sea Island schooner *Papeete Tahiti* (241524); model of Bay Line steamer *President Warfield* (241525); model of a New Jersey garvey (241526); model of side wheel steamer *Pocomoke* (241527); painting "Fire at the New York Merchants Exchange" by Nicolino Calyo (241528); model of American Colonial sloop *Mediator* (241529); reproductions of pile and trussel of

Edward III halfgroat and the Virginia halfpenny reverse die, 1773 (241558); linstock, pre-1841 (241580); 5 lithographs (241588); 5 Egyptian pigments and a bag of natron (241592); scale model of brig *Chaleur* (241594); half-model of *U.S. Revenue* (241595); rigged models of scow sloop *Elsie* and log canoe *Queen of the Fleet* (241596); model of Pennsylvania Railroad boxcar, 1895 (241597); powder chest marked "USLSS-Powder" (241662); engraving "Attack and Defeat of the American Fleet under Benedict Arnold," by William Faden (241664); model of privateer *Rattlesnake* (241666); "Flemish" side chair, ca. 1690 (241679); Flemish armchair and a looking glass (241680); winnowing tray (241729); clock (241742); model of U.S. Lighthouse tender *Greenbrier* (241746); model of Red Star freighter *Maricaibo* (241747); model of a coal jimmy, 1840 (241748); model of a Birney streetcar, 1920 (241751); model of New Jersey Railroad and Transportation Co. No. 39 locomotive (241752); original model for Mayflower medal by Paul Vincze (241814); 40 numismatic items (241817); Indian Peace medal struck in the name of John Quincy Adams, mounted in special presentation box (241818); 1,406 printings from special plates of U.S. currency (241830); 1-dollar Rochester Clearing House Association certificate issued in 1933 (241833); 2 wooden clock movements (241843); iron pot, broad ax, and a stone jug (241857); specimen of the Woodbine, Ill., meteorite (241867); Admiralty style model of the Continental frigate *Raleigh* (241879); model of the Confederate ram *Fredericksburg* (241880); model of the colonial schooner *Halifax* (241882); model of the U.S. brig *Niagara* (241883); model of the U.S.S. *Mississippi* (241884); model of U.S. Ironclad gunboat *Carondelet* (241885); model of U.S. sloop-of-war *Vincennes* (241887); model of Bethlehem pumping unit (241891); grandfather's clock in tin case (241896); 3 engravings from Blome "Gentlemen's Companion for Recreation," ca. 1710 (241897); model of caisson for Rochester Bridge, 1851 (241907); 12 earth globes (241908); Alvan Clark and John Brashear refracting and reflecting telescopes (241909); 219 wood specimens from Mexico (241932). *National Zoological Park:* 225 miscellaneous reptiles and amphibians (241353); 57 woodworking tools (241590); 14 bird skeletons, 3 alcoholics, and 4 eggs (241917); (through Dr. T. H. Reed) 23 mammals (241765).

Smithsonian Institution-Alan Collins Expedition to Libya: (Through Dr. Henry W. Setzer) A collection of recent vertebrate animals and insects, vertebrate fossils, and a bird trap from Libya (234288).

Smithsonian Institution, National Institutes of Health, and Agriculture, U.S. Department of: 250,000 insects from various localities, comprising the A. L. Melander collection (236883).

Smyth, Prof. Henry D. (See Princeton University)

Smyth, Mrs. Robert L., San Rafael, Calif.: 22 water-color paintings by Marie Louise Evans (239792).

Snelling, Roy F., Sacramento, Calif.: 6 bees from California (228628).

Snow, Dr. D. W., Trinidad, B.W.I.: 14 phanerogams from the B.W.I. (238372).

Snow, Raymond A., Liverpool, N.Y.: 9 precancel stamps from New York (239314).

Snyderman, I., New York, N.Y.: 5 ancient clay tablets with cuneiform inscriptions recording commercial transactions (240322).

Society for the Establishment of Useful Manufactures, Paterson, N.J.: (Through William Sorensen) Lombard hydraulic turbine governor (241096).

Society of Medal, Token and Obsolete Paper Money Collectors, Baltimore, Md.: Bronze medal commemorating the first annual meeting held by the Society in Atlanta, Ga., 1961 (240324).

Society of Medalists, New York, N.Y.: Bronze medal designed by Adolph Block and released by the Society of Medalists, May 1961, as its 63d issue and a medal representing David and Goliath (237134, 240636).

Society of Washington Printmakers, Arlington, Va.: Serigraph, "Snow Garden," by Richard Merkin (241102).

Soderstrom, Dr. Thomas R., Washington, D.C.: 932 grasses, 250 phanerogams, and 41 ferns from Mexico collected by donor (236933, 237033); 59 grasses from Mexico collected by donor and Dr. John R. Reeder (236584).

Sohn, Dr. I. G. (See Interior, U.S. Department of the)

Sommerman, Dr. Kathryn M., Anchorage, Alaska: 134 black flies from Alaska (240065).

Sorensen, Prof. R. W. (See California Institute of Technology)

Sorensen, William (See Society for the Establishment of Useful Manufactures)

Sottile, Frank, Hillside, N.J.: 11 polychaete worms, 2 crabs, and a tunicate (237985).

Souter, Lester S., Boerne, Tex.: Cotton planter of the 19th century (240545).

South Africa, Republic of: *Department of Forestry:* (Through Dr. J. H. van Wyk) 100 microscope slides of wood specimens from South Africa (240892, exchange). *Division of Entomology:* (Through Dr. J. C. Faure) 39 thrips, mostly paratypes, from Africa (234233, exchange). *Geological Survey:* (Through Dr. F. C. Truter) specimen of the Bellsbank meteorite from South Africa (239372, exchange). *South African Museum:* (Through Dr. Keppel H. Barnard) 4 marine mollusks from False Bay, South Africa (235220).

Southern Missionary College, Collegedale, Tenn.: (Through Dr. E. O. Grundset) cultivated fern (240360).

Southern Railway System, Washington, D.C.: (Through Harry A. DeButts) Southern Railway Locomotive No. 1401 (196330).

Southwestern at Memphis, Memphis, Tenn.: (Through Dr. C. L. Baker) 13 aquatic salamanders (237769).

Southwestern Louisiana, University of, Lafayette, La.: (Through Dr. William D. Reese) fern from Texas (239306).

Spalding, Francis O., Lake Forest, Ill.; **DeWitt, Mrs. Donald S., Holt, Donald R., Holt, Jeannette R.,** Oconto, Wis.; **Finnie, Mrs. Haldeman,** Grosse Point, Mich.; **Holt, Alfred H.,** Ft. Lauderdale, Fla.; **Holt, McPherson,** La Jolla, Calif.; **Lane, Mrs. Nathanial T.,** New York, N.Y.; **Prosser, Mrs. John A.,** Denver, Colo.; and **Wheeler, Gordon,** Hinsdale, Ill.: Collection of photographic equipment given in memory of donors' aunt and uncle, George Hubbard Holt and his sister, Ellen Holt (240392).

Spange, Col. H. W., Washington, D.C.: 10 mint postage stamps of Denmark commemorating the millenary existence of Denmark as a kingdom (237594).

Spangler, Dr. Paul J., Washington, D.C.: 1,505 miscellaneous insects and 1,381 water scavenger beetles from North America (237758, 241671).

Sparks, Dr. Albert K. (See Interior, U.S. Department of the)

Spencer, Dr. Kenneth A., London, England: 4 leafminers from South America (241124).

Spencer, R. W., San Marino, Calif.: 4 phanerogams from Brazil and Mexico (239305).

Spitz, Michael W., Seaford, N.Y.: 8 amphipods (239493).

Špoljerić, Dr. Zvonimir (See Zagreb, University of)

Springer, Stewart (See Schloeder, Dr. Frank X.)

Springer, Dr. Victor G. (See California, University of, Florida State Board of Conservation, and Interior, U.S. Department of the)

Springer Fund, Smithsonian Institution: 118 fossil echinoids from Anguilla, B.W.I. (236577, 238629); 54 fossil echinoderms mostly from the Upper Paleozoic of mid-continent U.S. (236623); 28 crinoids, including 10 paratypes, from the Pennsylvanian of Oklahoma (238628); 62 miscellaneous invertebrates from western U.S.

(238630) ; 3 slabs containing echinoids from the Permian of Utah (240254).

Stack, Benjamin, New York, N.Y.: French gold-coin balance of the 18th century (240105). (See also Stack, Joseph B.)

Stack, Harvey G., New York, N.Y.: 96 ancient and modern, gold and silver coins and a trial piece (237332, 240104, 241832) ; 6 obsolete U.S. bills (237335) ; silver ingot from the Nevada Silver Co., 1876 (238473) ; 2 coin dies from the Civil Wars used in coining half crowns in the name of Charles I., ca. 1645 (240096) ; file concerning a lottery decreed by the Viceroy of Peru and held at Potosi in 1818 (241824) ; 5 obsolete stock certificates issued by the Missouri, Kansas, and Texas Railway Co. (241835). (See also Stack, Joseph B.)

Stack, Joseph B., New York, N.Y.: 52 silver, gold, bronze, tin, and wooden medals and coins, and plaquettes commemorating numismatists (235692, 237011, 237331, 237333, 237334, 237336, 237584, 237586, 237587, 237591, 237592, 240102) ; 26 U.S. obsolete bills (237590) ; 4 documents referring to early American financial history (241825, 241826).

Stack, Joseph B., Morton, Norman, Benjamin, and Harvey G., New York, N.Y.: 400 political campaign objects (238841, 239762).

Stack, Morton, New York, N.Y.: 42 rare ancient Greek and Roman coins and 766 German emergency currencies pegged to the gold standard, the U.S. dollar, or commodities (240103, 241829). (See also Stack, Joseph B.)

Stack, Norman, New York, N.Y.: 4 rare medals (240106) ; 35 financial documents issued in Prague and Vienna concerning coins and paper currencies, 18th and 19th centuries (241819, 241822) ; pattern in silver of English sixpence engraved by Droz, 1790, and a pattern in aluminum of 20 francs, 1941, struck by the Vichy Government of France (241816) ; 2 Roman contorniates and a silver denarius of Otho (241823). (See also Stack, Joseph B.)

Stack's, New York, N.Y.: 3,236 German seals (241821).

Stadelman, Raymond, Lima, Peru: 5 guácharos and a bat (236310).

Stagg, A. C., Lexington, Ky.: 400 Kentucky decal tax stamps (241306).

Staggs, Catherine Elaine (See Staggs, Mrs. Helen)

Staggs, Mrs. Helen, and Staggs, Catherine Elaine, Grand Junction, Colo.: Christening blanket of Thomas Hooker, 1586 (236975).

Staley, Glenn M., Durango, Colo., and **Wrather, Dr. W. E.,** Washington, D.C.: Stone carving of a bison (240229).

Stanford University, Stanford, Calif.: 155 phanerogams, 4 grasses, and 9 ferns from California, Mexico, and South America (240304, exchange) ; (through Dr. Stanley H. Weitzman) fish, paratype, from South America (236743) ; (through Dr. Ira L. Wiggins) 22 lichens from Mexico (238328). *George Vanderbilt Foundation:* (Through H. A. Fehlmann) 27 shrimps and 12 crabs (225124). *W. W. Hansen Laboratory:* (Through Dr. E. L. Ginzton) model of B klystron (236620, exchange.)

Stanley, Willard F. (See Biology Unit of the American Topical Association)

Stannard, Dr. Lewis J., Urbana, Ill.: 2 slides of flower thrips from Utah (241674).

Stanton, Dr. Carey, Port Hueneme, Calif.: 5 U.S. gold coins and 2 bank notes (237135).

Stark, Leon F. S., Philadelphia, Pa.: Pair of woman's satin slippers, ca. 1870 (235580).

Starr, Robert B. (See Defense, U.S. Department of)

State, U.S. Department of, Washington, D.C.: (Through Charles Stypmann) T–8 training bomb (237345). *American Embassy, New Delhi,* India: Brocaded silk stole (236724). *American Embassy, Kuwait:* (Through Robert E. Rice) fish from the Persian Gulf (238901).

Steencamp, Philip, Mafeking, Republic of South Africa: Spear and bottle of pupa cases from Kung Bushman, Ghanzi, Bechuanaland Protectorate (240628).

Steinberg, Joan, Berkeley, Calif.: 27 marine mollusks from California (236634).

Stephen F. Austin State College, Nacogdoches, Tex.: (Through Dr. Walter H. Lewis) 122 phanerogams, including 2 holotypes, from Mexico, New Mexico, and Texas (240616, 241257).

Stephens, C. S., Almirante, Panama: 18 moth larvae and pupae from Honduras (239132).

Stephens, Dr. John (See California, University of, and Scripps Institution of Oceanography)

Stevens Institute of Technology, Hoboken, N.J.: Brayton oil engine (210799).

Stewart, J. George (See Architect of the Capitol)

Stewart, Dr. T. Dale (See Tobin, W. J.)

Steyermark, Dr. Julian A. (See Ministerio de Agricultura y Cria)

Stillman, Chauncey D., New York, N.Y.: Landau carriage, 1879 (236553).

Stillman, Mrs. Helen G., Pasadena, Calif.: Coverlet sample of the early 19th century (238999).

Stockman, Rudolph, Clearbrook, Minn.: (Through Mrs. Edmund Rydeen) Crosley "Icyball" refrigerator (237470).

Stone, Dr. Alan, Washington, D.C.: 224 miscellaneous insects from the U.S. (241275).

Stone, Dr. Benjamin C., Agana, Guam: 84 phanerogams mostly from the New Hebrides, Solomon Islands, and Hawaii collected by donor (238373, 239309).

Stone, Maj. Gen. William S. (See Defense, U.S. Department of)

Strasburg, Dr. Donald W. (See Interior, U.S. Department of the)

Straub, Paul A. (deceased): 19th-century copy of Portland vase by Wedgwood (241795).

Strelak, Joseph, Waukegan, Ill.: 18 first-day wrappers of Canada, the U.S., and United Nations (239926).

Strohecker, Dr. H. F., Coral Gables, Fla.: 24 scarab beetles from Florida (241273).

Stroud, George A., Washington, D.C.: Safety razor (240286).

Struhsaker, Dr. Paul J. (See Interior, U.S. Department of the)

Strumpf, Jeff (See Miami, University of)

Stuart, Dr. Harris B. (See Commerce, U.S. Department of)

Sturgeon, Dr. Myron T., Athens, Ohio: Brachiopod from the Upper Paleozoic, Red Eagle limestone of Oklahoma (240035); (through Dr. Ellis L. Yochelson) 35 gastropods from the Pennsylvanian of Ohio (237114).

Styles, Thomas J., New York, N.Y.: (Through A. R. Thompson) 80 pupin experimental coils enclosed in a glass case (237705).

Stypmann, Charles (See State, U.S. Department of)

Sublette, Dr. James E., Portales, N. Mex.: 10 midges, including a holotype, from the U.S. (240059).

Sudo, Syoji (See Japan, Government of)

Suiko Kai Association, Minato-ku, Tokyo, Japan: (Through Capt. Suteo Ishida) 41 Japanese Naval uniforms (237461).

Suits, C. G. (See California Institute of Technology and General Electric Co.)

Summers, Dr. F. M., Davis, Calif.: 11 slides, including 4 holotypes, of mites from North America (238660).

Sutherland, Mrs. W. A., Washington, D.C.: 25 porcelains of the 18th century (240285).

Swain, Dr. F. M., Jr., Minneapolis, Minn.: 87 ostracodes from the early Middle Ordovician of eastern U.S. (240536). (See also Interior, U.S. Department of the)

Swan, Walter, Corinth, N.Y.: U.S. metal parcel post die commemorating the Silver Jubilee of the service, 1913–38 (236650).

Sweet, William O. (See Sweet Manufacturing Co.)

Sweet Manufacturing Co., Attleboro, Mass.: (Through William O. Sweet) jewelry chain machine and samples (240288).

Swicegood, Claude, Maryville, Tenn.: Fossil coral from Tennessee (239116).

Swiss, E. W., and Brent, Mrs. Sarah S., Denton, Md.: Pewter platter of the 18th century (236930).

Sykes, Dr. James E. (See Interior, U.S. Department of the)

Syz, Dr. and Mrs. Hans, Westport, Conn.: 15 pieces of European porcelains of the 18th century (240074).

Tagawa, Dr. M. (See Kyoto University)

Takata, Michio (See Interior, U.S. Department of the)

Talliaferro, Harriotte (See Brown, Dr. William A., Jr.)

Tamsitt, Dr. James R., Bogotá, Colombia: 105 frogs from Colombia and Ecuador (239869).

Tamsitt, Dr. James R., and Valdivieso, Dario, Bogotá, Colombia: 11 frogs from Colombia (240948).

Tarplay, Wallace A., Blacksburg, Va.: 15 beetles from Virginia (239282).

Tateoka, Dr. Tuguo, Misima, Sizuoka-ken, Japan: 164 grasses from Texas and Mexico collected by donor (235579).

Tavares, Isabelle (See California, University of)

Tavares, Dr. Sérgio, Recife, Pernambuco, Brazil: 225 phanerogams, 8 grasses, and 9 ferns from Brazil (239200, 239972, 240579).

Taxson, Mr. and Mrs. Albert, Bronx, N.Y.: 6 salt-marsh snails from Florida (238985).

Taylor, Dr. George (See Great Brittain, Government of)

Taylor, Robert W., Cambridge, Mass.: 57 ants from Australia, New Zealand, and Panama (238135, exchange).

Taylor & Taylor, Printers, San Francisco, Calif.: (Through James W. Elliott) Columbian press and an engraving of the press (237265).

Tebble, Norman (See Interior, U.S. Department of the)

Technischen Universität Berlin, Berlin-Charlottenburg, Germany: (Through Dr. Klaus J. Müller) 73 invertebrate fossils from the Paleozoic and Mesozoic of Germany and 8 washings with Foraminifera and ostracodes from deposits of the Tertiary of Austria and Germany (236242, exchange).

Teilhet, Saral (See Hutchinson, Helen, League of Women Voters, and Reinicker, Mrs. Douglas)

Teller, Comdr. Leslie W. (See Defense, U.S. Department of)

Templeman, Mrs. Eleanor Lee, Arlington, Va.: Silver teaspoon (238368).

Tennessee, University of, Knoxville, Tenn.: (Through Dr. A. J. Sharp) 3 phanerogams (241495).

Territory of Papua and New Guinea: *Department of Forests:* 147 phanerogams and 4 ferns from New Guinea (240309, exchange).

Texas, University of, Austin, Tex.: 19 phanerogams and 39 grasses from Mexico (236409, 236639, 236791); 810 phanerogams, 6 grasses, and 30 ferns from Mexico collected by Robert M. King (236792, exchange); (through Robert M. King) 2 lichens from Mexico (241490).

Texas Christian University, Fort Worth, Tex.: (Through Dr. Neil Hulings) coelenterate (236496).

Texas Research Foundation, Renner, Tex.: 119 grasses and 2 phanerogams from Mexico and Texas collected by Dr. Donovan S. Correll and others (235578, 236196); (through Dr. Donovan S. Correll) 162 phanerogams and 200 ferns (241171, exchange); (through Dr. C. L. Lundell) 102 ferns from Central America, phanerogam, and wood from Guatemala (232734, 241256).

Thomas, Mrs. Minna Lee, Montclair, Calif.: Painting of Thomas McKean by Mae Duquette (237071).

Thomas, Noble P., Alameda, Calif.: Bible, containing Old and New Testaments, published 1845 (236275).

Thomas, William K., Hatboro, Pa.: Metered mail special delivery cover (240110).

Thome, O. (See American Express Co., Inc.)

Thompson, A. R. (See Styles, Thomas J.)

Thompson, Lowell, Royal Oak, Md.: Work box made by French prisoners of war during the Napoleonic Wars (237323).

Thompson, Max, Udall, Kans.: 100 slides of bird lice from Alaska (240270).

Thompson, Robert (See Health, Education, and Welfare, U.S. Department of)

Thomson, Dr. John W. (See Wisconsin, University of)

Thrower, Mrs. S. L. (See Melbourne, University of)

Thurman, Dr. Ernestine B., Bethesda, Md.: 15 proturans from the District of Columbia and Virginia (238691).

Tice, Warren K., Manchester, Conn.: Fossil crab from the Miocene of Maryland (238437).

Tidwell, William A. (See Archeological Society of Maryland)

Timberlake, Dr. P. H., Riverside, Calif.: 37 bees, paratypes of 6 species, from southwest U.S. (237770). (See also California, University of)

Tinkle, Dr. Donald W., Lubbock, Tex.: (Through Roger Conant) 2 watersnakes, paratypes, from Texas (236819).

Tipton, Maj. Vernon J., Fort Amador, Canal Zone: 701 biting lice and 40 sucking lice from Panama (238690). (See also Defense, U.S. Department of)

Tobin, W. J., Washington, D.C.: (Through Dr. T. Dale Stewart) textile fragment from Peru (240032).

Tobolewski, Dr. Zygmunt (See Uniwersytet Poznánski)

Todd, Dr. D. H. (See Scientific and Industrial Research)

Todd, Dr. E. L., Jr., Washington, D.C.: 29 scarab beetles from Kansas (241670).

Todd, Ruth (See Bermudez, Dr. Pedro J.; Closs, Dr. Darcy; Glaessner, Dr. Martin F.; and Interior, U.S. Department of the)

Token and Medal Society (See B & B Supplies; Binsley, Mrs. Paul N.; Capitol Medals; Coin and Currency Institute, Inc.; Coin World; Medal of the Month Club; and Medallion Distributors, Inc.)

Tokyo, University of, Tokyo, Japan: (Through Drs. Shohei Banno and Keiichiro Kanehira) 2 ferriphengites, types, from Honshu, Japan (236778); (through Dr. Teiichi Kobayashi) 33 pelecypods from the Jurassic of Japan (236575, exchange); (through Dr. Tetsuo Koyama) 2 phanerogams from Ryukyu Islands (241652); (through Dr. Ken Shimaji) 76 microscope slides of wood and 76 wood specimens (236757, 240729, exchanges); (through Dr. Yoshiaki Tominaga) 3 fishes from Japan (240349, exchange).

Tolley, Mrs. George, Jamestown, N.Y.: Old ship's log paper (236007).

Tominaga, Dr. Yoshiaki (See Tokyo, University of)

Tomlinson, Dr. Jack (See San Francisco State College)

Townes, Dr. Henry, Ann Arbor, Mich.: 500 parasitic wasps (240674).

Townsend, Col. Dured E. (See Ryukyu Islands, Government of)

Townsend, Prof. Richard E. (See Michigan, University of)

Transvaal Museum, Pretoria, South Africa: (Through P. P. de Moor) 3 darkling beetles from South Africa (241277).

Trapp, Francis W., Falls Church, Va.: Apophyllite from Virginia (239231); 2 apophyllites from Arlington Quarry, Loudoun Co., Va. (240472, exchange).

Traub, Lt. Col. Robert (See Defense, U.S. Department of)

Traverse, Alfred, Houston, Tex.: 19 phanerogams and 4 grasses from Texas (236787).

Treasury, U.S. Department of the, Washington, D.C.: *Bureau of Customs:* Numerous gems, minerals, cut stones, synthetics, pieces of jewelry, and imitations (236566, 236920, 236921, 238637, 240040, 240042, 240232, 240233, 240239, 240247, 240538); 60 American and foreign firearms and 2 birds (238642, 241585). *Bureau of Engraving and Printing:* 3 plate proofs of a steel plate used for printing currency by the City Bank of New Haven, Conn., 1855 (241105); (through Henry J. Holtzclaw) 4 original woodcut dies of Presidents Lincoln and McKinley (241440); (through R. N. Schwarz) Graflex press camera with accessories (241812). *Bureau of the Mint:* 20 U.S. coins from the Philadelphia and Denver mints, and 2 Assay Commission medals for 1962 (240792). *Internal Revenue Service:* 22 caliber revolver and 4 cartridges, Remington Wingmaster shotgun, and a colt .45 pistol (241587, 241665); (through Mortimer M. Caplin) 82,850 Puerto Rican Rectified Spirits stamps and 3,850 Certificates of Distilled Spirits Shipments in tank cars, 2 books of "collector's certificates of tax payment of distilled spirits for shipment in tank cars," series May 1937 and March 1953 (236645, 239658); 11,728 U.S. Internal Revenue Narcotic stamps (237235). *U.S. Coast Guard:* Seth Thomas radio beacon clock from the U.S. Coast Guard Radio Station, Jacksonville, Fla. (241838); (through Comdr. Paul Olson) document entitled "List of Beacons, Buoys, Stakes and Other Day-Marks in the Second Light-House District," published by Treasury, Jan. 1, 1868 (240320); (through Vice Adm. A. C. Richmond) photograph of the first Coast Guard Aviation group at Naval Air Station, Pensacola, Fla., March 22, 1917 (241302).

Tregear, Mary (See Hong Kong, University of)

Trevorrow, George C., Washington, D.C.: Old surveyor's compass (236942).

Troop, Douglas Temple, Washington, D.C.: 23 uniforms, insignia, and accessories of the Royal Flying Corps and the Royal Canadian Air Force (240315).

Truax, Robert A., Washington, D.C.: Postal card bearing Washington, D.C., streetcar postmarking (239755).

Truter, Dr. F. C. (See South Africa, Government of)

Tsirimonis, Constantine St., Alexandria, Egypt: 5 miscellaneous covers bearing Egyptian stamps (237162).

Tucker, Charles, Woodbridge, N.J.: (Through Hunter Ross) powder flask (241876).

Tulane University, New Orleans, La.: (Through Mrs. Emily H. Vokes) 66 fossil echinoids from the Cretaceous of Texas and Tertiary of Florida (241568, exchange).

Turku, University of, Turku, Finland: 66 phanerogams collected in Brazil by E. A. Vainio (234783).

Turnbull, Harriet B. and Janet D., Casanova, Va.: Hartford tulip and sunflower carved oak chest, 17th century (239874).

Turnbull, Janet D. (See Turnbull, Harriet B.)

Turner, George T., Washington, D.C.: 20 examples of U.S. speed mail (experimental) and 159 miscellaneous U.S., United Nations, and foreign philatelic items (236653, 240127).

Turner, John B., New York, N.Y.: (Through Peter H. Deitsch) 8 intaglio prints and an etching by Minna Citron (240678).

Tuttle, Dr. Donald M., Tucson, Ariz.: 23 land snails from Yuma, Ariz. (238863).

Tuttle, Merlin D., Knoxville, Tenn.: 13 mammals from Tennessee (241772).

Tuve, Dr. M. A. (See Carnegie Institution of Washington)

Twaddell, Mr. and Mrs. Stephen, Danville, N.H.: 4 carved, ornamented, diorite doorstones of the 17th century (239753).

Tyree, Adm. David M., Washington, D.C.: (Through William Rea Furlong) official flag of Task Group 43.4, Byrd Station, South Pole Traverse (240846).

Tyrrell, Henry G. K., Baltimore, Md.: 9 prints of bridges (239369).

U.S. Rubber Co., Waterbury, Conn.: (Through H. P. Grieder) 2 overshoe-buckle-making machines and a wooden hoist (238716).

U.S. Steel Corp., Pittsburgh, Pa.: (Through George McPherson) wooden prototype model of LORIG-self centering rolls (241800).

Uhlig, Frederic, Alexandria, Va.: Cover bearing U.S. postage stamps canceled Williamsburg, Va., July 4, 1961 (240124).

Uible, Howard E., Washington, D.C.: Pygmy marmoset (240663).

Underwater Research Unit, Auckland, New Zealand: (Through Dr. H. J. Chapman) 25 crustaceans (234229, exchange).

United Arab Republic, Government of, Cairo, Egypt: (Through Saad El-Chichini) 22 mint postage stamps and 7 first-day covers of United Arab Republic (239923).

United Nations Postal Administration, United Nations, N.Y.: (Through D. Thomas Clements) 610 United Nations postage stamps and stationery (236486, 239757, 241736).

Universidad de Chile, Santiago, Chile: (Through Dr. Gerhard Follmann) 6 lichens from Chile (235729).

Universidad de Montevideo, Montevideo, Uruguay: 6 phanerogams from Uruguay (241254).

Universidad Nacional Autónoma de México, Mexico, D.F.: Phanerogam, isotype (237107).

Universidad Nacional de La Plata, La Plata, Argentina: 194 phanerogams and 6 grasses from Argentina (237565, exchange); 3 phanerogams from Argentina (238375).

Universidad Nacional de Trujillo, Trujillo, Peru: 8 phanerogams from Peru (240089); (through Dr. Abundio Sagástegui Alva) 33 legumes from Peru (239581).

Universidade do Brazil, Rio de Janeiro, Brazil: 5 phanerogams, 1 grass, and 10 ferns (239001, exchange); (through Dr. Paulo de Miranda-Ribeiro) 2 sharks from Brazil (240191, exchange).

Universidade do Paraná, Curitiba, Paraná, Brazil: 37 phanerogams from Brazil (236717).

Universidade Rural do Estado de Minas Gerais, Minas Gerais, Brazil: 112 phanerogams, 12 ferns, and 12 grasses from Brazil (237731, 238313).

Universitatis Jagellonicae, Cracow, Poland: 86 phanerogams, 9 grasses, and 9 ferns from Poland (239354, exchange).

Université de Rennes, Rennes, France: (Through Prof. H. des Abbayes) 20 lichens (241565, exchange).

University College of the West Indies, St. Augustine, Trinidad, West Indies: Fern from Trinidad (239358).

University de los Andes, Mérida, Venezuela: (Through Harry Corothie) 200 wood specimens from Venezuela (237065, exchange).

University Museum, Oxford, England: (Through Dr. D. M. Robinson) paratype of a parasitic wasp from Uganda (241505)

University School of Forestry, Brno, Czechoslovakia: *Botanical Institute*: (Through Dr. Antonín Vezda) 100 lichens (239750, exchange).

Uniwersytet Poznánski, Poznán, Poland: (Through Dr. Zygmunt Tobolewski) 50 lichens from Poland (241563, exchange).

Utrecht, State University of, Utrecht, Netherlands: 79 grasses from Peru (237722).

Vaill, Dudley L. (deceased): (Through Charles M. Wormser) 2 brass medals commemorating the centennial of the battle of Plattsburgh, Sept. 11, 1814, and the *Commodore MacDonough* and *General Macomb* (239917).

Valdivieso, Dario (See Tamsitt, Dr. James R.)

Valerio, Prof. Manuel, San Jose, Costa Rica: 22 marine and fresh-water mollusks and a fossil mollusk from Costa Rica (225137, 239199).

Valluzzo, George P., Danbury, Conn.: 90 centerless-ground workpieces (241185).

Van Artsdalen, Mrs. M., Long Beach, Calif.: 2 Civil War discharge certificates, GAR badge, and a penalty envelope (236887).

Vandale, A. E. (See Westmoreland Coal Co.)

van der Vecht, Dr. J., Leiden, Netherlands: Wasp from New Guinea (241294, exchange).

Van Gelder, Dr. Richard G. (See American Museum of Natural History)

Van Groesbeck, Chris (See International Business Machines Corp.)

van Lith, J. P., Rotterdam, Netherlands: 6 psenine wasps from Asia (241535).

Van Nierop, Johanna, Washington, D.C.: Paisley shawl of 1875 and a length of Point de Paris bobbin lace (238738).

Van Stone, Beatrice, Washington, D.C.: 2 dresses of the periods 1895 and 1904, 4 rugs, clock, doll, 19 pieces of china and glass, Japanese Kimono, and 5 pieces of Japanese embroidery (235874, 241785).

Van Tassel, Dr. R. (See Institut Royal des Sciences Naturelles)

van Wyk, Dr. J. H. (See South Africa, Republic of)

van Zyl, Ben, Windhoek, South-West Africa: Musical instrument (240630).

Vargas C., Dr. César, Cuzco, Peru: 13 miscellaneous phanerogams mostly from Peru (236597, 240301).

Vaurie, Mrs. Patricia, New York, N.Y.: 5 scarab beetles from Central America (238705).

Vázquez Soto, Ing. Jesús (See Instituto Nacional de Investigaciones Forestales)

Vezda, Dr. Antonín (See University School of Forestry)

Victoria University of Wellington, Wellington, New Zealand: (Through Dr. M. H. Briggs) specimen of the Mokoia meteorite (241365, exchange).

Vierthaler, Prof. Arthur A. (See Wisconsin, University of)

Viet Nam, Embassy of, Washington, D.C.: (Through Nguyen Phu Duc) 115 unused postage stamps of Viet Nam (237593).

Virginia Fisheries Laboratory, Gloucester Point, Va.: (Through Dr. Marvin L. Wass) 56 amphipods and 190 shrimps (235371). *Virginia Institute of Marine Science:* (Through George C. Grant) 74 mysidaceans and 4 isopods (239495); (through William H. Massmann) fish from Gloucester Point, Va. (239565).

Virginia Polytechnic Institute, Blacksburg, Va.: (Through Dr. Byron N. Cooper) 50 invertebrate fossils from the Mississippian of Mercer Co., W. Va. (238980); (through Dr. Robert D. Ross) 2 fishes from Tennessee (237420, exchange).

Vladykov, Dr. V. D. (See Ottawa, University of)

Vockeroth, Dr. J. R., Ottawa, Ontario, Canada: 3 flies from China, Europe, and Japan (238698, exchange). (See also Canada, Government of)

Voeller, Bruce (See Rockefeller Institute)

Vogel, Mr. and Mrs. Roy E., San Diego, Calif.: 2 Russian wine glasses and a silver cocktail shaker from the U.S.S. *Panay,* 1915 (237485).

Vokes, Mrs. Emily H. (See Tulane University)

Vos, Mrs. Bert J., McLean, Va., and **Brewer, Mrs. David G.,** Alexandria, Va.: 9 bird skins and a skeleton (240625).

Voss, Dr. Gilbert L. (See Miami, University of)

Voss, William J., Lubbock, Tex.: 5 alcoholic birds from Arizona, New Mexico, and Sonora (240279).

Vrije Universiteit, Amsterdam, Netherlands: (Through M. Vroman) 100 marine algae from Europe and the West Indies (241566), exchange).

Vroman, M. (See Vrije Universiteit)

Vuorelainen, Y., Outokumpu, Finland: 6 minerals from Finland (236834, exchange).

Wade, Mrs. Ella N. (See Mütter Museum)

Wade, Dr. Mary (See Glaessner, Dr. Martin F.)

Wagner, Donald H., Harrisburg, Pa.: Bell crown shako, 1821–32 (240135, exchange).

Wagner, Prof. W. H., Jr. (See Michigan, University of)

Wahrenbrock, Mrs. Elizabeth L. (See Dyar, Dr. Edna)

Walcott Fund, Smithsonian Institution: Crab from the Miocene of Lexington Park, Md. (235685); 8 echinoids from Buxxard Run, Meadville, Pa., collected by Porter M. Kier and A. M. Lewis (238112); 5,000 seeds, nuts, fruits, and wood from the Eocene of Clarno, Oreg. (238631); fossil dragonfly from California (239045); 10,000 mollusks and 50 Foraminifera from the Cretaceous of Colorado, Montana, New Mexico, Utah, and Wyoming, collected by Drs. Erle G. Kauffman and Norman F. Sohl, August–September 1961 (240994). (See also Interior, U.S. Department of the)

Walker, Barbara, Louisville, Ky.: 101 isopods, paratypes and holotype (237995).

Walker, Dr. Boyd W. (See California, University of)

Walker, Ralph M., Mount Ranier, Md.: Atwater-Kent and Philco radio receivers (240145).

Wall, Carl F. (See Interior, U.S. Department of the)

Wallace, Mrs. Earle Sessions, Eastham, Mass.: 55 ethnological items from the Pacific Islands in memory of donor's husband (233630).

Wallour, Mrs. Dorothy J., Duxbury, Mass.: 55 isopods (235127).

Walter, H. V., Belo Horizonte, Minas Gerais, Brazil: (Through Drs. Clifford Evans and Betty J. Meggers) 42 archeological items from the Lagoa Santa region, Minas Gerais (241649).

Wankowicz, Mr. and Mrs. Paul, New York, N.Y.: (Through John B. White) 4 gobioid fishes from the Persian Gulf collected by Mrs. Wankowicz (237106).

Ward, Herbert, Guam, Marianas Islands: 723 fishes from Guam collected by donor (235732).

Ward's Natural Science Establishment, Inc., Rochester, N.Y.: (Through David E. Jensen) 2 nadorites from Langban, Sweden (239880).

Ware, Mrs. Ethelmae, Estate of: Blue topaz and star chrysoberyl in memory of John Wesley Ware (236216, bequest).

Warfield, Thomas, Baltimore, Md.: 10 obsolete notes and checks (241179).

Warmke, Mrs. Germaine L. (See Puerto Rico, University of)

Warren, Richard Dean, Gainesville, Fla.: 3 isopods (237360).

Wasbauer, Dr. Marius S., Sacramento, Calif.: 35 fruit flies from California (240157, exchange).

Washburn, F. D., Boston, Mass.: Restrike of pattern for the Massachusetts Pine Tree cent of 1776 (239652).

Washington and Old Dominion Railroad, Arlington, Va.: John Brown rail, 1873 (241598).

Washington Steel Corp., Washington, Pa.: (Through Lee T. Sellars) model of a Sendzimir mill (238438).

Wass, Dr. Marvin L. (See Virginia Fisheries Laboratory)

Watanabe, Prof. Takeo (See Geological Institute)

Watkins, C. Malcolm, and Howland, Dr. Richard H., Washington, D.C.: List rug (237885).

Watson, Donald E., Honolulu, Hawaii: Type and paratype of a new species of trematode worm from Oahu, Hawaii (241677).

Watson, George H., Sturbridge, Mass.: 2 Dutch bricks, 2 Maiolica fragments and a fragment of Coquina from Arrivas House, St. Augustine, Fla. (239139); drilling machine and vise (236798).

Watson, Mrs. George H., Sturbridge, Mass.: Wall and box paper, mainly 19th century (237228).

Weaver, B. Woodruff, Washington, D.C.: Medicine chest and 35 pharmaceutical items (239197). (See also Atkins, Mrs. Harriet Ann, and Barnes, Col. Theodore)

Weaver, Mr. and Mrs. B. Woodruff, Washington, D.C.: 2 scarab rings, a velvet dress of the bustle period, ivory and gold lace fan, an embroidered net veil, French inkwell and ladle, folding lantern, Villard teaspoon, and set of knives and forks of the 19th century (237920, 240072). (See also Barnes, Col. Theodore)

Weaver, Clifton S., Lanikai, Kailua, Hawaii: 3 rare marine mollusks from Australia and South Africa (241022).

Webb, George, Hampton, Va.: 19 fossils from the Miocene of Rice's Pit, Hampton, Va. (237056).

Webb, Joseph Edelen, Bethesda, Md.: 2 uncut 12- to 18-subject sheets, and a reconstructed 32-subject sheet of U.S. one-dollar silver certificates (240479).

Weber, Dr. R. E. J. (See Netherlands, Government of)

Weber, Robert J., Washington, D.C.: L. C. Smith & Bros. typewriter (239668).

Weber, Dr. William A. (See Colorado, University of)

Weil, Dr. George, Washington, D.C.: Copy of the original War Department press release for Dec. 1, 1946 (240287).

Weinig, Louis J., Silver Spring, Md., and **Morgan, Mrs. Herbert**, Bowling Green, Ohio: Beaver hat and hat box of the early part of the 19th century (237472).

Weir, Paul, Chicago, Ill.: Miner's cap (241803).

Weiss, Helena M., Washington, D.C.: Envelope bearing foreign meters and 5 covers bearing U.S. and foreign postage stamps (239927).

Weiss, Dr. M. M., Brooklyn, N.Y.: 2 needle-holding forceps and a urethrameter (241114).

Weitzman, Dr. Stanley H. (See Stanford University).

Welch, Dr. Winona H. (See DePauw University)

Weldon, Walter A., Baltimore, Md.: 19 miscellaneous items relating to the ceramic industry from the Walter Weldon studio collections (238713).

Wells, Mrs. David Leonard, Washington, D.C.: Coverlet, blanket, and crib quilt of the 19th century (237318).

Wells, Dr. G. P., London, England: Polychaete worm, paratype, from Cuttyhunk, Mass. (236433).

Wells, Dr. Harry W. (See Florida State University)

Wells, Henry H., Brewster, N.Y.: Ericsson hot air pumping engine, ca. 1900, and a liquid burner (238460).

Wells, Mrs. Ruth Ann Parker, Washington, D.C.: 92 miscellaneous U.S. and foreign covers, postal cards bearing postage stamps, and 21 examples of costume for the period 1873–1906 (237338, 237724).

Wells, Lt. W. H. (See Defense, U.S. Department of)

Welsh, Peter C., Washington, D.C.: U.S. cannon worm head (239659).

Wescott, Blaine B. (See Gulf Research and Development Co.)

Wesley, Mrs. Lofton S., Spencerville, Md.: 8 letter and partial design punches used by Edward Stabler (241515).

West, Thomas B., Lincoln, Ark.: Colonial cloak (241457).

West Virginia University, Morgantown, W. Va.: (Through Dr. R. W. Laird) Sullivan puncher (238248).

Western Australia, University of, Nedlands, Australia: (Through Dr. P. J. Coleman) 184 invertebrate fossils from the Devonian, Mesozoic, and Permian of Western Australia (237159, exchange).

Western Union Telegraph Co., New York, N.Y.: (Through Grosvenor Hotchkiss) Universal system keyboard transmitter, selfwind ticker transmitter, and circular transmitting keyboard (238753).

Westinghouse Electric Corp., South Philadelphia, Pa.: Westinghouse indicator diagram, 1888 (238489).

Westmoreland Coal Co., Philadelphia, Pa.: (Through A. E. Vandale) coal cart from the Westmoreland Coal Co. (236946).

Wetmore, Dr. Alexander (See Smithsonian Institution)

Weyerhaeuser Co., Centralia, Wash.: (Through Norman E. Johnson) 42 gall midges, including a holotype and 6 paratypes, from North America (238672, 240669).

Whan, Lawrence E., Chico, Calif.: 4 microlepidoptera from North America (238664).

Wheat, Mrs. Grant, Marlboro, Mass.: Collection of mining lamps, illuminating devices, and original models for the "Wheat Lamp" (239148).

Wheat, Dr. Robert, Durham, N.C.: Land snail from Durham (230406).

Wheeler, David, Jr., Edisto Island, S.C.: Claw of a sloth from the Pleistocene of Edisto Island (241661).

Wheeler, Ellen R., Fairfield, Conn.: 8 architectural drawings, 9 rolls of wall paper, and a fragment of carpet (238707).

Wheeler, Dr. G. C., Grand Forks, N. Dak.: Wasp From Panama (240274).

Wheeler, Gordon (See Spalding, Francis O.)

Wheeler, H. E., Birmingham, Ala.: 150 land and fresh-water mollusks from Alabama (205495).

Wheeler, Dr. Marshall R., Austin, Tex.: 90 flies, including types and holotypes, from the Neotropics (210193, 236838).

Whipple, Dr. Fred L. (See Smithsonian Institution)

White, James T., Sewanee, Tenn.: 3 barites from Riverside Quarry, Cartersville, Ga. (237572).

White, John, Chicago, Ill.: String of wampum (240799).

White, John, Tucson, Ariz.: 2 pyrites coated with chalcocite from Esperanza Mine, Tucson, Ariz. (236483, exchange); calcite from Onyx Cave, Ariz. (238106).

White, John B. (See Wankowicz, Mr. and Mrs. Paul)

Whitehead, Lt. Donald R., Army Chemical Center, Md. 3 centipedes and 53 caddis-fly larvae from the U.S. (239606, 241676).

White House, The, Washington, D.C.: (Through Mrs. John Pearce) piece of Buckinghamshire lace and a post card of the 19th century (238477).

Whiteley, Mabel, Baltimore, Md.: 2 sewing clamps (240817).

Whiting, Almond C., Washington, D.C.: (Through Central Public Library) 53 lithographs by Honoré Daumier and "Gavarni" and 39 line cuts by "Gavarni" (239934).

Whiting, Dr. Marjorie, Washington, D.C.: Rain cape and rain vest from Formosa (236919).

Whitmore, Dr. Frank C., Jr. (See Interior, U.S. Department of the)

Whitney, Dr. R. R. (See Interior, U.S. Department of the)

Whitney, Mrs. Roscoe, South Newbury, Vt.: Wooden tripod (236663).

Wickersham, Mrs. Jean, Long Island, N.Y.: 2 pieces of submarine cable cut at Port-au-Prince and Santiago during the Spanish-American War, presidential campaign buttons of Presidents McKinley and Theodore Roosevelt, brass cowbell, and an Admiral Dewey souvenir button (237901).

Wiegand, Mrs. Martin T. (See Bell, Flora)

Wiggins, Dr. Glenn B. (See Royal Ontario Museum)

Wiggins, Dr. Ira L. (See Stanford University)

Wigley, Dr. Roland L. (See Interior, U.S. Department of the)

Wildenberg, Marvin, New York, N.Y.: 14,264 Indonesian stamps (240335).

Willahan, Mr. and Mrs. L. A., Los Angeles, Calif.: 81 scarab beetles from Texas and eastern states (238666).

William Jewell College, Liberty, Mo.: (Through Dr. L. J. Gier) 8 lichens from Peru (233138).

Williams, Dr. Francis X., Chula Vista, Calif.: 3 wasps from North America (240272).

Williams, S. T. (See Scovill Manufacturing Co.)

Wilson, E. S. (See International Silver Co.)

Wilson, Emily Byrd (address unknown): Petticoat with embroidered hem (239689).

Wilson, Floyd, Micaville, N.C.: 10 minerals from Mexico and Nevada (240659).

Wilson, Mrs. Frank, Alexandria, Va.: 3 fashion prints of the 19th century (237093).

Wilson, Mrs. Ida Lee (See Colburn Memorial Mineral Museum)

Wilson, J. R., Pittsburgh, Pa.: Old miner's pick from the Five Point coal field (237320).

Wilson, Dr. Lawrence P., Walls, Miss.: Echinoid from the Cretaceous of Coon Creek, Tenn. (238793).

Wilson, Mrs. Mildred S., Anchorage, Alaska: 2 copepods, types (234432).

Wilson, R. G., Miami, Fla.: 9 phanerogams and 4 cultivated ferns (236585, 236936, 241035). (See also Fantastic Gardens)

Wilson, R. Thornton, New York, N.Y.: Rare Russian porcelain cup and saucer (241101).

Wilson, Valentine L., Philadelphia, Pa.: U.S. unused postal card of 1878 (236939).

Wilson, Mrs. Woodrow (deceased): (Through Mrs. Margaret C. Brown) 30 items of clothing worn by President and Mrs. Woodrow Wilson, also a piano cover (241900).

Wiman, Virginia, Washington, D.C.: 226 miscellaneous U.S. and foreign covers, stamps, postal stationery, ceremonial presentation folders and programs, and associated philatelic memorabilia (236648, 239351, 239657, 240118).

Wing, Chester E., Hastings, Mich.: 5,589 U.S. precancel stamps (236008).

Wingood, Allan J., Hamilton, Bermuda: Alga from Bermuda and 3 sponges (239850).

Winn, Dr. Howard E. (See Maryland, University of)

Winslow, Harriet, Washington, D.C.: 19 pieces of drawn threadwork and lace costume accessories, 19th century (240504).

Winston, Donald, Austin, Tex.: 2 echinoids and 7 fragments from the Paleozoic of Texas (237741).

Winthrop, Mrs. Brenda L., Scarsdale, N.Y.: 1,339 philatelic covers from the Winthrop family correspondence (239500).

Wirth, Jacob, Farmington, Maine: Bed-rope tightener (239180).

Wirth, Dr. Willis W., Washington, D.C.: 76 small moths from Virginia and 5,000 flies from Massachusetts and New Hampshire (237759, 239123). (See also Agriculture, U.S. Department of)

Wisconsin, University of, Madison, Wis.: (Through Dr. E. N. Cameron) 15 minerals from Ghana and India (236561); (through Dr. John W. Thomson) 204 lichens (238721, 241496, exchanges); (through Prof. Arthur A. Vierthaler) 12 minerals from Michigan (240236).

Wise, Mr. and Mrs. Milton A., Pasadena, Calif.: 3 minerals from California (238636).

Wise, Murray M., New York, N.Y.: 10 Brazilian bank notes (239350).

Wisseman, Dr. Charles L., Jr. (See Maryland, University of)

Witt, William L., Arlington, Va.: 158 reptiles and amphibians mostly from Virginia (241352).

Wofford College, Spartanburg, S.C.: (Through Dr. Harold Robinson) 3 flies from North America (238128).

Wolf, Mrs. Margarete (See Franke & Heidecke)

Wolfson, Sumner H., Boston, Mass.: 2-gram portion of a Dodge Co., Ga., tektite (237028).

Wood, Harry B., Bethesda, Md.: (Through Dr. Harry B. Wood, Jr.) Washington hand press (240744).

Wood, Dr. Harry B., Jr. (See Wood, Harry B.)

Woodroffe, G. E. (See Agricultural Research Council)

Woodruff, Dr. R. E. (See Florida, State of)

Woods Hole Oceanographic Institution, Woods Hole, Mass.: (Through Dr. Robert J. Conover) shrimp (237490); (through Dr. George D. Grice) 4 copepods (240016).

Woodworth, Mrs. Harry A. (See Maier, Mrs. Lilian T.)

Woolf, Mrs. Donald O., Washington, D.C.: 2 dresses, a fan, collar and cuffs, and a gold and enamel pin of the 19th century (240648). (See also St. Albans Church Opportunity Shop)

Woolston, Arthur L., Bedford, England: 45 phanerogams, 1 grass, and 3 ferns from Africa and Paraguay (236828, 239356).

Woolston, Evelyn May, Los Angeles, Calif.: 2 brooches, opera glasses, bracelet, and a calling card case (237652).

Wormser, Charles M., New York, N.Y.: 92 die proofs of vignettes prepared by the American and Continental Bank Note Co. and the Bureau of Engraving and Printing (240101). (See also Vaill, Dudley L.)

Woroniecki, Thomas, Massapequa, N.Y.: 20 reproductions of medals and tokens in the Ralph E. Becker collection (237887).

Wrather, Dr. W. E. (See Staley, Glenn M.)

Wright, Robert (See Commerce, U.S. Department of)

Wright, William D., Triangle, Va.: 3 fragments of projectile from "Big Bertha" (241424).

Wyeth Laboratories, Inc., Philadelphia, Pa.: (Through Alex J. Adler) Bicillin, hypodermic syringe, and Dryvax smallpox vaccine (241519).

Wygodzinsky, Dr. Petr, Berkeley, Calif.: 2 black flies from South America (237963, exchange).

Wylie, Mrs. Walter, Allison Park, Pa.: 3 tokens issued by Kentucky mining companies (241881).

Yaffe, Paul, Baltimore, Md.: Calcite from Pugh Brothers Quarry, Weston, Ohio, and wulfenite from Defiance Mine, Ariz. (237414, exchange).

Yale & Towne Manufacturing Co., New York, N.Y.: Combination padlock (239669); (through Milton M. Enzer) replica of a Greek key and a wooden demonstration model of a Roman lock and key (240554).

Yale University, New Haven, Conn.: (Through Michael Perugino) Skinner steam engine with accessories and indicators, and 3 prints of engines and a bridge (237917, 240144). *Bingham Oceanographic Laboratory:* (Through Dr. Alfred W. Ebeling) 3 fishes from the southwest coast of Bimini and off the Florida coast (238200, 239429).

Yarnall, Mrs. Robert N. (See Franklin Institute)

Yasumatsu, Prof. Keizo (See Kyushu University)

Yed Lin, Dr. S., Washington, D.C.: 13 shrimps and a crab (236996).

Yedlin, Neal, New Haven, Conn.: 2 minerals from Maine and quartz from Connecticut (238638, 240250).

Yochelson, Dr. Ellis L. (See Interior, U.S. Department of the, and Sturgeon, Dr. Myron T.)

Yunker, Dr. Conrad E. (See Health, Education, and Welfare, U.S. Department of)

Zabriskie, Christian A., New York, N.Y.: 436 Polish coins and medals from the earliest periods to the Revolution of 1831 (239143).

Zack, Henry, Maspith, N.Y. and **Geiser, Mrs. Mary,** Farmingdale, N.Y.: 2 drill presses (237236).

Zagreb, University of, Zagreb-Maksimir, Yugoslavia: (Through Dr. Zvonimir Špoljarić) 270 miscellaneous wood specimens, mostly Old World (237017, exchange).

Zalles, Mrs. Rose, Washington, D.C.: 14 items of clothing from N. Africa and Afghanistan (238117).

Zardini, Signor Rinaldo, Belluno, Italy: 11 brachiopods from the Triassic of Italian Alps (237775, exchange).

Ziffzer, Mrs. Arnold, Eureka Springs, Ark.: 9 European miners' lamps (239748).

Zimmer, Dr. Carl R. (See Arizona State University)

Zinn, Dr. Donald J. (See Rhode Island, University of)

Zoologisches Museum, Berlin, Germany: (Through Prof. Dr. F. Peus) 4 black flies from Australia and Europe (236965, exchange).

Zoomar, Inc., Glen Cove, L.I., N.Y.: (Through Dr. Frank Back) 6 motion picture and television lenses (238383).

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